

March 14, 2025

Mr. Bradley Demo
New York State Department of Environmental Conservation, Region 9
Division of Environmental Remediation
700 Delaware Avenue
Buffalo, New York 14209

Subject: 02/15/24 – 02/15/25 PERIODIC REVIEW REPORT
Chem-Trol Site, Registry No. 9-15-015
Blasdell, Erie County

Dear Mr. Demo:

AECOM USA, Inc. (AECOM), on behalf of SC Holdings, Inc. (SC Holdings), is submitting this Periodic Review Report (PRR) along with a completed Institutional Controls and Engineering Controls (IC/EC) Certification Form (Attachment A) for the Chem-Trol site for the reporting period of February 15, 2024 to February 15, 2025. This report is being submitted as requested by the New York State Department of Environmental Conservation (NYSDEC) in its letter dated February 11, 2025 to Mr. Ryan Donovan. The letter directs the next PRR and IC/EC form be submitted to NYSDCE no later than March 15, 2025.

I. INTRODUCTION

The Chem-Trol site is located at 4818 Lake Avenue, Town of Hamburg, in Erie County, New York. Chem-Trol Pollution Services (Chem-Trol) purchased the property in 1969 and operated the site as a waste chemical processing facility that included chemical recovery, storage, and neutralization. Wastes, including capacitors, pesticides, oil sludges, paint sludges, spent solvents and pickle liquors, were accepted at the facility for processing. The facility ceased operations in 1972.

As a result of historic waste processing activities, on-site soil and groundwater were impacted with heavy metals and volatile organic compounds (VOCs). In 1977, as part of the facility closure activities, Chem-Trol removed approximately 95 cubic yards of contaminated soils, placed clean soil cover and established vegetative cover over the area.

Investigative studies led to a Record of Decision (ROD) in 1996 that specified additional remedial activities. These included removal of additional soils, and construction of a soil vapor extraction (SVE) system and groundwater collection and treatment system. The SVE system includes a header pipe and eight subsurface laterals installed in a linear array within the area of remediated soils. The groundwater collection and treatment system includes a blast-fractured bedrock trench in which three groundwater collection wells are installed, conveyance piping, and a shallow tray air stripper that

removes VOCs from the collected groundwater. The treated groundwater is discharged through a pipe to the South Branch of Smokes Creek.

The SVE system and the groundwater collection and treatment system continue to operate. During 2010, McMahon & Mann Consulting Engineers, PC (MMCE) evaluated the effectiveness of passive operation of the SVE system in removing soil vapors. Subsequently, the SVE system was converted from active to passive operation in 2010. A copy of the SVE system evaluation letter report was included as Attachment B in the 2010 PRR (see Attachment B).

II. SITE OVERVIEW

The Chem-Trol site is situated in an urban setting with industrial/commercial areas to the north and east, commercial development along Lake Avenue to the south, and residential areas to the west, across the South Branch of Smokes Creek. Figure 1 shows the Chem-Trol site location and features.

Investigations completed between 1991 and 1994 showed contaminated soils generally located in the former operations and surface lagoon areas. Additional soil contamination was found in the on-site tributary of Smokes Creek as well as the flood plain along the western edge of the site. Contaminated groundwater was found in the overburden as well as the shallow bedrock beneath the site.

Groundwater contours developed as part of the investigations show that groundwater flows in a northwesterly direction beneath the site toward the South Branch of Smokes Creek.

Because of the on-site contamination, the Chem-Trol site was assigned a hazardous waste site classification of “Class 2” by NYSDEC. This classification indicates that the site poses a significant threat to public health and/or the environment and that action in the form of further investigations and remediation is required.

NYSDEC selected a remedial design based upon the results of the Remedial Investigation/Feasibility Study (RI/FS) for the Chem-Trol site. The March 1996 ROD selected a remedy that included:

- Excavation of soils and sediments from selected areas of the site;
- Installation of a groundwater collection trench along the western edge of the site;
- Improvement of the existing soil cover over the former chemical processing area; and
- Installation of a SVE system within the former waste chemical processing area.

Pre-design investigations and remedial design were completed between 1997 and 2000. Construction of the ROD-required remedial components was completed between 1999 and 2001. Operation, maintenance and monitoring of the remedial components began in 2001. In December 2004, the Chem-Trol site was re-classified to a “Class 4” site by NYSDEC. This classification indicates that remedial actions taken at the site to eliminate significant threats to public health and the environment have been properly constructed and implemented, and long-term operation, maintenance and monitoring of the in-place remedial systems is necessary to assure remedy effectiveness.

Goals for the remedial program were established through the remediation selection process given in 6 NYCRR 375-1.10. The remediation goals established for this site include:

- Reduce and remove chemical contamination in the soils, sediments and groundwater at the site;
- Eliminate the potential for direct human or animal contact with the contaminated soils, sediments, and groundwaters at the site;
- Prevent migration of contaminants in the on-site soils into the groundwater;
- Prevent off-site migration of contaminated groundwater and mitigate the impacts of contaminated groundwater to the environment; and
- Provide for attainment of Soil Cleanup Guidelines (SCG) for groundwater quality to the extent practical.

In the 2022 PRR approval letter from the NYSDEC to Mr. Ryan Donovan (SC Holdings, Inc.) dated May 4, 2023, NYSDEC approved a reduction in periodic monitoring requirements that were requested in the Conclusions and Recommendations section of the 2022 PRR. Beginning as of the date of that letter, groundwater treatment system sampling migrated from a monthly schedule to an every-other-month schedule (odd-numbered months), and system cleanings were maintained on an every-other-month schedule being performed on non-sample months (i.e., even-numbered months). Additionally, it was approved that water level gauging events would be reduced from quarterly to semi-annual, and annual groundwater monitoring would be reduced from annual to biennial on an even-numbered year schedule.

III. REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

SC Holdings continues to monitor the performance of the SVE and groundwater collection and treatment system.

SVE System

SC Holdings submitted a work plan to NYSDEC on October 22, 2009, proposing conversion of the active system to a passive venting system and monitoring the performance of the passive system for a year. NYSDEC authorized the conversion to a passive system along with monthly monitoring. The SVE treatment system was converted from active to passive operation in January 2010.

After a year of monitoring, SC Holdings submitted a report describing the monitoring results as indicating that passive operation of the SVE system provides similar and possibly improved effectiveness as active operation of the SVE system in venting soil vapors. Water level data in the passive vent risers indicated that passive venting might also contribute to generally lower water levels in the laterals for a longer period of time over the course of the year and therefore provide a greater opportunity to vent soil vapors.

It was recommended that active operation of the SVE system permanently cease and that passive operation of the SVE system laterals continue. In addition, it was recommended that continued monitoring of the SVE system laterals be eliminated. NYSDEC agreed with these recommendations in a letter to Mr. Mark Snyder dated March 29, 2011 (see Appendix B).

During this reporting period, the SVE system continued to operate passively. The lateral riser pipes were visually examined for damage during quarterly site visits. No damage was observed during these site visits.

Groundwater Collection and Treatment System

SC Holdings has the following actions performed by AECOM to monitor the performance of the groundwater collection system as required in the ROD:

1. Perform monthly operation and maintenance tasks on the system;
2. Perform periodic cleaning of the air stripper on an every-other-month schedule, including visual check of seals and removal of mineral accumulation in air stripper trays using mechanical means (scrubbing, re-drilling holes to full diameter, etc.);
3. Sample and analyze the groundwater collection and treatment system influent and effluent on an every-other-month basis for a site-specific list of 10 VOCs, Total Iron, Total Suspended Solids (TSS), and pH;
4. Measure and record water levels in groundwater extraction wells and groundwater monitoring wells on a semi-annual basis thereafter;
5. Prepare bedrock groundwater contours based on water level measurements collected during the year; and,
6. Obtain groundwater samples on a biennial even-numbered year schedule for VOCs from six groundwater monitoring wells.

Effluent from the groundwater collection and treatment system (air stripper) discharges into the South Branch of Smokes Creek. Aqueous effluent samples taken from the air stripper surface water discharge pipe are analyzed for surface water discharge parameter limit concentrations including VOCs by EPA Method 624.1, Total Iron by EPA Method 200.7, TSS by Standard Method (SM) 2540D, and pH by SM 4500 H+B. Analytical test results show that discharge parameter concentrations in the air stripper effluent for samples collected from March 2024 through February 2025 were below the concentration and mass loading discharge limits established by NYSDEC for each of the 6 required monitoring events (March, May, July, September, November 2024 and January 2025).

Treated water discharge effluent criteria for flow volume, pH, Total Dissolved Solids (TDS), TSS, ten VOCs (chloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,1,1-trichloroethane, trichloroethane, benzene, toluene, o-chlorotoluene, chlorobenzene, and cis-1,2-dichloroethene), and six total metals (aluminum, boron, iron, lead, manganese, and zinc) were established in March 2001 (see Attachment B). A request to modify effluent criteria based on initial operating data was submitted to NYSDEC by MMCE (consultant to SC Holdings) in December 2004. NYSDEC responded to the request in July 2007 approving a modification of effluent criteria for iron (increased from 700 micrograms per liter to 3 milligrams per liter), and discontinuation of monitoring for TDS, aluminum, boron, lead, manganese, and zinc (see Attachment B).

Pursuant to the May 2023 NYSDEC-approved revisions to sampling and reporting requirements, analytical test results for the aqueous effluent samples are to be submitted semi-annually, with the

first 6 months of the year being submitted to NYSDEC in a dedicated semi-annual Operation and Maintenance (O&M) Report and the second six-months of the year to be submitted to NYSDEC with the annual PRR. Results for the March, May, and July 2024 sampling events were submitted to NYSDEC in a semi-annual report dated July 31, 2024. The results for September and November 2024 and January 2025 are included with this report (see Attachment C). Photographs to be collected per the NYSDEC February 11, 2025 letter have begun and will be presented in future semi-annual O&M and annual PRR reports.

Total system flow is monitored via a total influent system flow meter located within the groundwater treatment building. Total system flow is recorded during each sampling or service visit. Total system flow is presented on the site visit summary sheets contained in Attachment C. Individual extraction well flow meters are also installed. However, the low flow rates from the individual wells does not produce reliable data for the individual wells on a consistent basis. Individual flow meters are periodically dismantled and cleaned to optimize performance; however, at the low flow rates, the flow meters are often unable to transmit a flow rate to the master control panel. To verify individual wells are pumping, the service team isolates individual wells and monitors the total flow meter to estimate each individual well flow.

As noted above, the air stripper is serviced on a periodic schedule (even-numbered months) to remove mineral accumulation (iron fouling) from the air stripper trays. The trays are removed from the system and the mineral deposits are removed using mechanical means (scrubbing, re-drilling holes to full diameter, etc.). The naturally occurring mineral deposits are dispersed to the ground surface within the secure limits of site within the fence line in areas not prone to surface water runoff. The trays are returned to the air stripper unit, and the system is restarted and checked for proper operation prior to service crew leaving site.

Monthly testing of the air stripper exhaust discharge (vapor phase) samples ceased after April 2011. Monthly testing was eliminated based upon a letter from Al Zylinski, NYSDEC Division of Air Resources, to MMCE (consultant to SC Holdings) dated April 6, 2011 (see Appendix B). The letter approved elimination of sampling and testing of the air stripper exhaust.

In October 2020, a Sensaphone remote monitoring system was installed for the groundwater treatment system. The Sensaphone system automatically sends the AECOM Project Manager and SC Holdings Project Manager electronic mail notification when power to the site is lost, or when pumps or the blower become non-operational. The AECOM Project Manager confirms receipt of the notification with the SC Holdings Project Manager and a service visit is scheduled promptly to address the notification and minimize downtime of the system.

A summary of semi-annual groundwater elevations measured in the groundwater monitoring wells and piezometers during 2024 is included in Table 1 - Summary of Groundwater Elevation Measurements. Semi-annual groundwater elevation contours for 2024 are plotted on Figures 2 and 3. Groundwater elevation data are next scheduled to be collected in April 2025 and will be included in the 2025/2026 PRR.

The contours show that the three extraction wells depress water levels in the trench below natural groundwater levels in that area of the site. The resulting depression in the groundwater table creates groundwater flow toward the collection trench. The measurements demonstrate that the collection trench is functioning as designed to restrict offsite flow and limit groundwater discharge to the South Branch of Smokes Creek.

VOC analytical test results of groundwater treatment system influent samples have historically shown o-chlorotoluene levels in higher concentrations than other organic compounds. Therefore, concentrations of o-chlorotoluene detected in groundwater treatment influent samples have been used to assess the performance of the treatment system in reducing organic compound concentrations in the groundwater. The o-chlorotoluene concentration data for influent groundwater samples was plotted versus time for the January 2003 through January 2025 sampling events (see Figure 4). The plot shows that the concentration of o-chlorotoluene in the influent groundwater samples has been reduced since initiation of treatment system operation. This indicates that the treatment system is meeting the remedial goal of reducing organic compound concentrations in the groundwater.

A comparison of the influent and effluent sample analytical results shows that the air stripper is effectively removing VOCs from the groundwater collected by the treatment system.

Annual Groundwater Monitoring

Pursuant to the May 2023 NYSDEC-approved revisions to sampling and reporting requirements, annual groundwater monitoring was not required in 2023. Groundwater samples were collected on an annual basis through 2022 and again most recently on September 25, 2024. Groundwater samples were collected from monitoring wells MW-3S, MW-7R, MW-8R, MW-9R, MW-13R, and MW-15R and analyzed by Eurofins Environment Testing (Amherst, NY) for the standard list of VOCs by EPA Method SW846 8260C. A summary of VOC detections for the annual 2024 groundwater-monitoring event is included as Table 2, Detection Summary. The complete 2024 groundwater sample analytical laboratory report is included as Attachment D. Historical concentration versus time trend plots for monitoring wells MW-3S, MW-8R, MW-9R, and MW-13R are included as Attachment E.

IV. O&M PLAN COMPLIANCE

The following activities were performed as part of the O&M Plan requirements:

Soil Vapor Extraction System

AECOM performed the following activity from February 16, 2024 through February 15, 2025 as part of monthly visits to the site:

- Visually observed each SVE passive vent riser for damage.

Groundwater Collection and Treatment System

AECOM performed the following activities from February 16, 2024 through February 15, 2025 as part of monthly O&M visits:

- Verified that each extraction well was running and performing as designed;
- Observed that each pump was operating, documented pumping rates, total gallons pumped and insured that high and low water controls are functioning as designed;
- As required by the sampling schedule, performed influent and effluent sample analytical testing;
- Observed that the air stripper was performing as designed;
- Performed monthly inspections of air stripper trays;
- Performed cleaning of air stripper trays on an every-other-month schedule to remove accumulated iron precipitate to promote optimum removal of VOCs; and,
- Prepared and submitted to NYSDEC on July 31, 2024, the 2024 semi-annual O&M report for the period March 2024 through July 2024 as required by the 2023 updated reporting schedule to NYSDEC.

The semi-annual O&M report submitted to NYSDEC provided further details on specific activities performed, analytical testing results, and observations made during the routine monthly O&M visits. Routine activities included general inspection and maintenance work performed on pumps, equipment, and sensors, as described in the monthly O&M inspection reports, during that period.

In addition, the following non-routine maintenance activities were also performed during this PRR reporting period:

- AECOM subcontractor Matrix Environmental Technologies, Inc. (Orchard Park, NY) (Matrix) performed routine periodic line jetting cleaning of the treated groundwater effluent discharge line from the treatment building to Smokes Creek outlet on April 23, 2024. This cleaning is conducted on an every-other-year schedule to remove iron fouling in the discharge line. Sediment generated during the line cleaning process was collected and placed on the onsite soil cap.
- During the AECOM site visit on February 4, 2025, system notifications for high water level in EW-1 and EW-2 were noted upon arrival for system cleaning. The team cleared the alarms and notified AECOM PM. AECOM PM scheduled a service visit for Matrix.
- On February 12, 2025, Matrix made a service visit to troubleshoot the notifications observed on February 4, 2025. Matrix evaluated extraction well EW-2 and determined the transducer was likely faulty and removed the transducer. EW-2 was left "OFF." Matrix inspected extraction well EW-1 and EW-3 well head control panels and found nothing faulty.
- On February 13, 2025, Matrix informs AECOM that testing of EW-2 transducer was completed and the transducer was confirmed to be faulty. A replacement transducer is ordered.

In a letter dated February 11, 2025, NYSDEC provided acceptance of the 02/15/23 - 02/15/24 PRR and associated IC/EC Certification and provided additional comments to be addressed in future PRRs. Those additional comments are addressed in this PRR.

V. CONCLUSIONS AND RECOMMENDATIONS

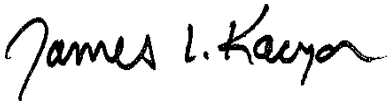
Groundwater Collection and Treatment

A comparison of the monthly influent vs. effluent analytical test results indicates that the groundwater collection and treatment system continues to remove VOC contaminants from groundwater at the Chem-Trol site. A plot of the influent o-chlorotoluene concentration versus time (see Figure 4) indicates that the source contributing to groundwater VOC concentrations has been reduced to where the source influence on groundwater has decreased over time. While remaining well below initial / early operation concentrations, a relatively gradual increase from May 2016 through November 2022 had been observed, with concentrations since then returning to approximately the same range as 2016 through 2019 levels. This trend will continue to be monitored.

The semi-annual groundwater elevation data show that the groundwater collection system continues to contain groundwater contaminants and creates a gradient toward the groundwater collection wells and away from the South Branch of Smokes Creek.

Please call the undersigned at AECOM (716-856-5636) or Mr. Ryan Donovan (413-275-1522) if you have any questions or require any additional information after reviewing this report.

Sincerely yours,



James L. Kaczor, P.G. (NY, IN)
Project Manager
james.kaczor@aecom.com

Enclosures (Tables 1 and 2, Figures 1 through 4)

Attachment A – 2024/2025 IC/EC Form

Attachment B – NYSDEC Approval Correspondence

Attachment C – August 2024 through February 2025 Inspection Logs and Monitoring Data

Attachment D – September 2024 Bi-Annual Groundwater Monitoring Analytical Report

Attachment E – Historical Trend Plots

cc: Ryan Donovan (SC Holdings, Inc.), electronic copy w/attachments
Megan Rivera (NYSDOH), electronic copy w/attachments
Edward M. Murphy, P.E. (AECOM), electronic copy w/attachments
60746785 Project File

TABLES

Table 1: Summary of Groundwater Elevations – 2024

**Table 2 – Bi-Annual Groundwater Monitoring Results (Sep. 2024)
(Detections Only)**

TABLE 1
Chem-Trol 2024 Semi-Annual Water Levels

| Pumping Wells | | 3Q Date | | 4Q Date | |
|---------------|------------------------|---------------------|----------------------------|---------------------|----------------------------|
| | | 7/29/2024 | | 9/25/2024 | |
| Well ID | Monitoring Point (TIC) | Depth To Water (ft) | 3rd Quarter Elevation (ft) | Depth To Water (ft) | 4th Quarter Elevation (ft) |
| EW-1 | 624.07 | 23.34 | 600.73 | 25.18 | 598.89 |
| EW-2 | 622.16 | 14.86 | 607.30 | 13.58 | 608.58 |
| EW-3 | 621.10 | 22.08 | 599.02 | 20.00 | 601.10 |

East of Cap (North to South)

| Well ID | Monitoring Point (TIC) | Depth To Water (ft) | 3rd Quarter Elevation (ft) | Depth To Water (ft) | 4th Quarter Elevation (ft) |
|---------|------------------------|---------------------|----------------------------|---------------------|----------------------------|
| MW-6S | 638.54 | 11.63 | 626.91 | 12.86 | 625.68 |
| MW-6R | 638.64 | 19.22 | 619.42 | 18.15 | 620.49 |
| P-1S | 642.80 | 8.16 | 634.64 | 10.20 | 632.60 |
| MW-1R | 645.36 | 10.01 | 635.35 | 11.70 | 633.66 |
| MW-1S | 645.40 | 9.60 | 635.80 | 11.94 | 633.46 |
| MW-7S | 642.85 | 11.10 | 631.75 | 10.53 | 632.32 |
| MW-7R | 642.28 | 8.13 | 634.15 | 9.61 | 632.67 |

Center of Cap (North to South)

| Well ID | Monitoring Point (TIC) | Depth To Water (ft) | 3rd Quarter Elevation (ft) | Depth To Water (ft) | 4th Quarter Elevation (ft) |
|---------|------------------------|---------------------|----------------------------|---------------------|----------------------------|
| P-5S | 637.54 | 11.10 | <624.05 | 13.49 | 624.05 |
| P-5R | 637.88 | Dry | <617.48 | Dry | <617.48 |
| MW-5S | 636.28 | 13.54 | 622.74 | 14.02 | 622.26 |
| P-2R | 646.96 | NM | N/A | 13.91 | 633.05 |
| P-2S | 646.44 | NM | N/A | 12.88 | 633.56 |
| MW-2S | 644.85 | 9.46 | 635.39 | 11.29 | 633.56 |

West of Cap (North to South)

| Well ID | Monitoring Point (TIC) | Depth To Water (ft) | 3rd Quarter Elevation (ft) | Depth To Water (ft) | 4th Quarter Elevation (ft) |
|---------|------------------------|---------------------|----------------------------|---------------------|----------------------------|
| MW-4S | 637.18 | 15.28 | 621.90 | Dry | <621.58 |
| MW-4R | 637.02 | 29.82 | 607.20 | Dry | <615.67 |
| P-4S | 636.54 | 15.94 | 620.60 | Dry | <620.54 |
| MW-3S | 637.64 | 17.96 | 619.68 | 18.32 | 619.32 |
| P-3R | 639.92 | 19.68 | 620.24 | 19.60 | 620.32 |
| P-3S | 639.46 | Blocked | N/A | 19.84 | 619.62 |
| OW-3R | 638.78 | 23.92 | 614.86 | 24.07 | 614.71 |

West of Trench (North to South)

| Well ID | Monitoring Point (TIC) | Depth To Water (ft) | 3rd Quarter Elevation (ft) | Depth To Water (ft) | 4th Quarter Elevation (ft) |
|---------|------------------------|---------------------|----------------------------|---------------------|----------------------------|
| OW-1FR | 620.42 | 12.98 | 607.44 | 12.21 | 608.21 |
| P97-5 | 613.65 | 6.51 | 607.14 | 5.79 | 607.86 |
| MW-10S | 615.15 | Dry | <609.08 | Dry | <609.08 |
| MW-10R | 615.47 | 7.85 | 607.62 | 7.44 | 608.03 |
| P97-4 | 614.8 | 7.60 | 607.20 | 6.83 | 607.97 |
| MW-8S | 617.28 | 7.23 | 610.05 | Blocked | N/A |
| MW-8R | 617.38 | 9.77 | 607.61 | 9.29 | 608.09 |
| P97-3 | 617.66 | 10.39 | 607.27 | 9.54 | 608.12 |
| MW-9RD | 619.13 | 6.02 | 613.11 | 5.92 | 613.21 |
| MW-9R | 619.17 | 11.86 | 607.31 | 10.99 | 608.18 |
| MW-9S | 619.91 | Dry | <609.15 | Dry | <609.15 |
| OW-2FR | 624.14 | 16.79 | 607.35 | Dry | <610.9 |
| P97-2 | 619.07 | 9.97 | 609.10 | 9.56 | 609.51 |
| P97-1 | 619.97 | 9.31 | 610.66 | 9.22 | 610.75 |
| MW-12R | 621.59 | 9.17 | 612.42 | 10.79 | 610.80 |
| MW-12S | 621.17 | Dry | <610.49 | Dry | <611.67 |

West of Smokes Creek (North to South)

| Well ID | Monitoring Point (TIC) | Depth To Water (ft) | 3rd Quarter Elevation (ft) | Depth To Water (ft) | 4th Quarter Elevation (ft) |
|---------|------------------------|---------------------|----------------------------|---------------------|----------------------------|
| MW-13R | 615.14 | 8.28 | 606.86 | 7.70 | 607.44 |
| MW-14R | 618.55 | 5.42 | 613.13 | 5.78 | 612.77 |

NM - Not measured (diameter of water level probe > well ID)
N/A - Not available

TABLE 2

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: TB-092524

Lab Sample ID: 480-223722-1

No Detections.

Client Sample ID: FD-092524

Lab Sample ID: 480-223722-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| o-Chlorotoluene - DL | 1100 | | 34 | | ug/L | 40 | | 8260C | Total/NA |

Client Sample ID: MW-13R

Lab Sample ID: 480-223722-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| o-Chlorotoluene | 1400 | | 34 | | ug/L | 40 | | 8260C | Total/NA |

Client Sample ID: MW-15R

Lab Sample ID: 480-223722-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Cyclohexane | 31 | | 5.0 | | ug/L | 2 | | 8260C | Total/NA |
| Methylcyclohexane | 8.8 | | 5.0 | | ug/L | 2 | | 8260C | Total/NA |

Client Sample ID: MW-3S

Lab Sample ID: 480-223722-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| o-Chlorotoluene | 77000 | | 860 | | ug/L | 1000 | | 8260C | Total/NA |

Client Sample ID: MW-7R

Lab Sample ID: 480-223722-6

No Detections.

Client Sample ID: MW-8R

Lab Sample ID: 480-223722-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| o-Chlorotoluene | 100 | | 5.0 | | ug/L | 4 | | 8260C | Total/NA |

Client Sample ID: MW-9R

Lab Sample ID: 480-223722-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 160 | | 5.0 | | ug/L | 4 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 71 | | 5.0 | | ug/L | 4 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

FIGURES

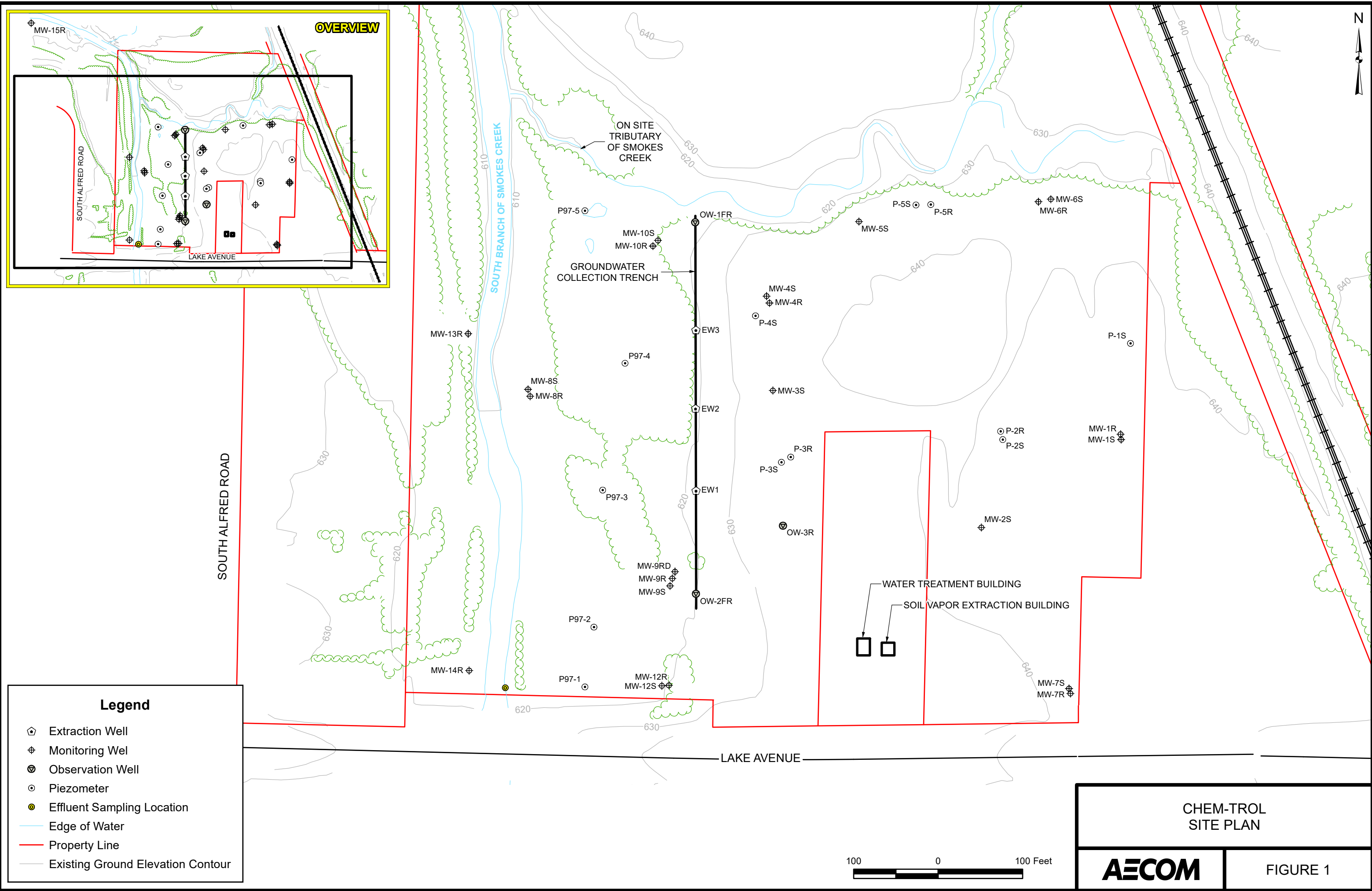
Figure 1: Site Plan

Figure 2: Bedrock Groundwater Contours – July 29, 2024

Figure 3: Bedrock Groundwater Contours – September 25, 2024

Figure 4: Influent o-Chlorotoluene Concentration 01/2003 – 01/2025

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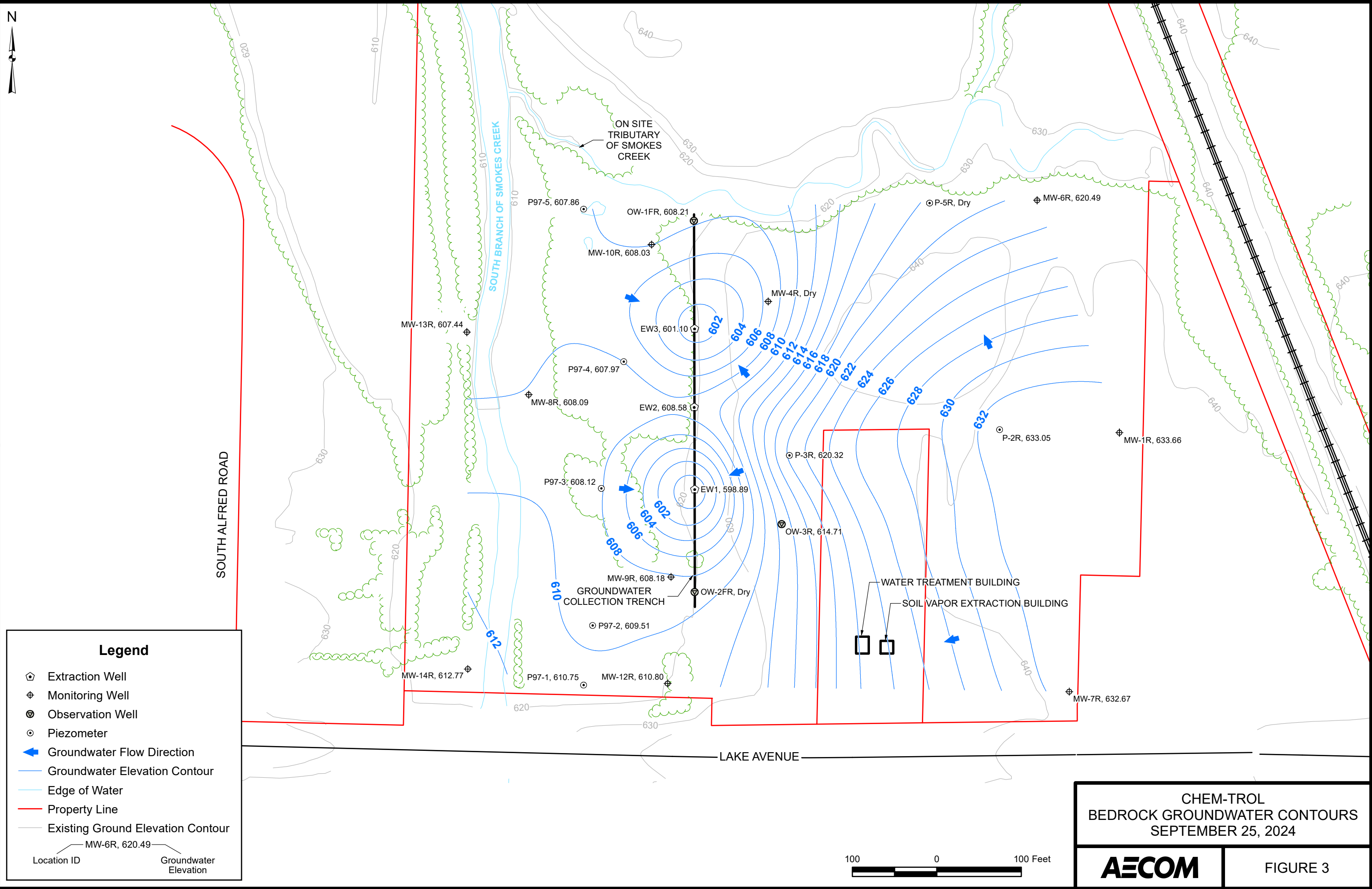
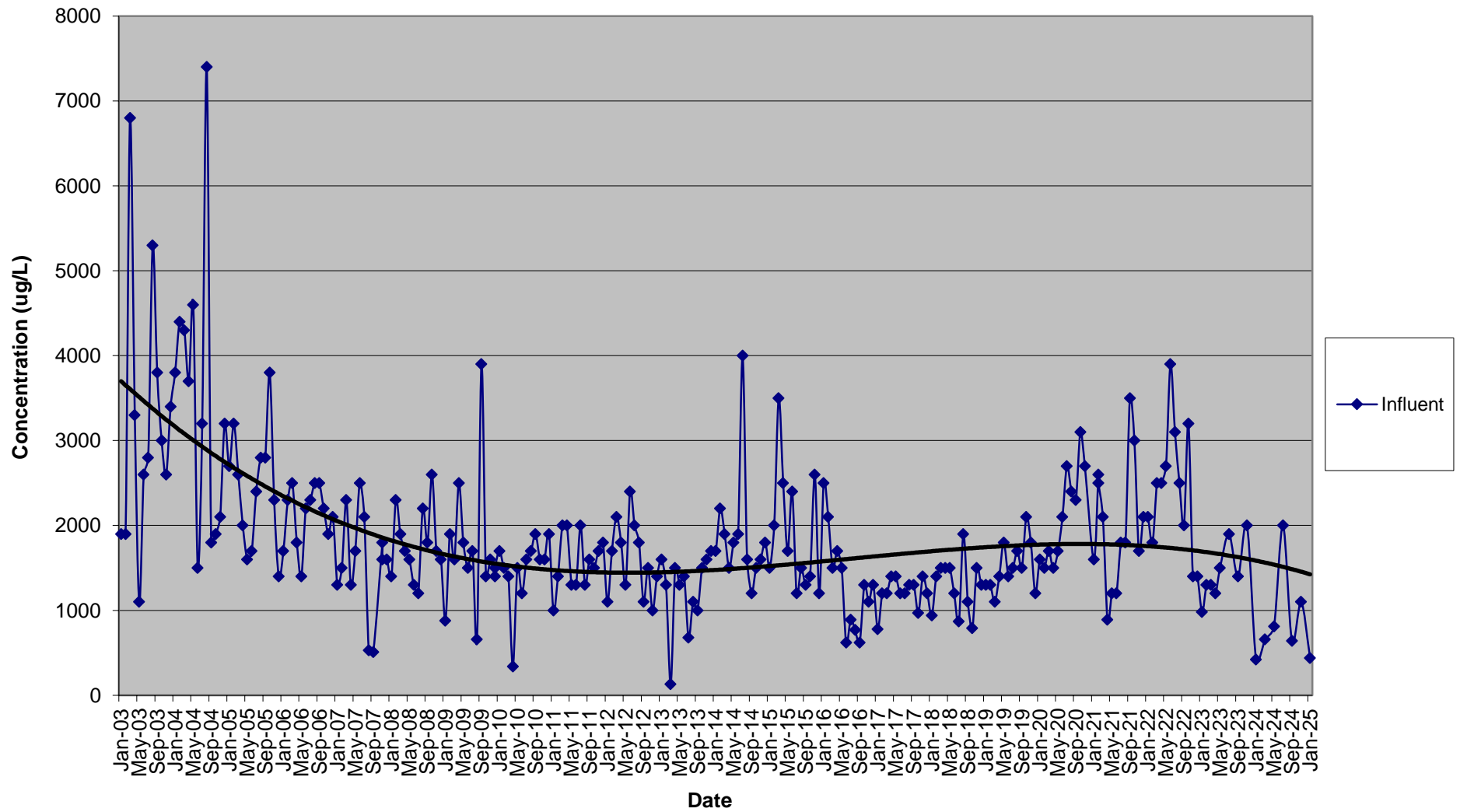


FIGURE 4

Chem-Trol Groundwater Treatment System
Influent o-Chlorotoluene Concentration
January 2003 - January 2025



ATTACHMENT A

Completed IC/EC Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. **915015**

Site Name Chem-Trol

Site Address: Lake Avenue Zip Code: 14107
City/Town: Hamburg
County: Erie
Site Acreage: 17.520

Reporting Period: February 15, 2024 to February 15, 2025

YES NO

1. Is the information above correct? X ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? ☐ X

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? ☐ X

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? ☐ X

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development? ☐ X

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Closed Landfill X ☐

7. Are all ICs in place and functioning as designed? X ☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional Controls

| <u>Parcel</u> | <u>Owner</u> | <u>Institutional Control</u> |
|---------------|-----------------------------------|--|
| 151.02-1-14.1 | SC Holdings Inc./Waste Management | Ground Water Use Restriction |
| | | Monitoring Plan O&M Plan Landuse Restriction |
| | | Building Use Restriction |

The controls identified in the Declaration of Covenants and Restrictions, recorded with Erie County on March 25, 2004, include but are not limited to the following: The owner of the Property shall maintain the cap covering the Property by maintaining its grass cover, or after obtaining written approval from the Relevant Agency, by capping the Property with another material. The property is prohibited from being used for purposes other than for industrial or commercial use, excluding use for day care, child care and medical care; the use of groundwater underlying the property is prohibited without treatment to render it safe for drinking water or industrial purposes, except that the groundwater may be reasonably used as necessary to conduct tests to monitor contamination levels of the groundwater. These restrictive covenants are binding and shall run with the land.

Description of Engineering Controls

| <u>Parcel</u> | <u>Engineering Control</u> |
|---------------|--|
| 151.02-1-14.1 | Groundwater Treatment System Cover System Groundwater Containment Monitoring Wells Fencing/Access Control Leachate Collection |

Remediation was completed in two phases consisting of Source Control Elements and Groundwater Control Elements. These elements are summarized as follows:

Source Control Elements:

1. Hot Spot Soils Removal.
2. Tributary Sediment Excavation/Disposal.
3. Site Soils Cover.
4. Soil Vapor Extraction. Passive state with one year evaluation starting January 2010. Passive state permanently approved on May 29, 2011.

Groundwater Control Elements:

1. Groundwater extraction from three extraction wells.
2. On-site groundwater treatment with discharge compliance monitoring.
2. Groundwater quality monitoring.

Groundwater intercept, extraction, treatment and discharge compliance monitoring. Periodic measuring of groundwater levels and plotting to develop groundwater contours and directional gradients. Annual groundwater quality monitoring to determine performance of remedy. Ongoing site management activities to continue with remedy and protection of public health and the environment.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

X ☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

X ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915015

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Ryan Donovan at 600 New Ludlow Road, South Hadley, MA 01175
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Ryan Donovan 03/14/25
Signature of Owner, Remedial Party, or Designated Representative Date
Rendering Certification

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I, Edward M. Murphy, PE, at AECOM, 50 Lakefront Blvd., Suite 111, Buffalo, NY 14202,
print name print business address

am certifying as a Professional Engineer for the Remedial Party.

(Owner or Remedial Party)



Edward M. Murphy

Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification

Stamp
(Required for PE)

3/13/25
Date

ATTACHMENT B

NYSDEC Approval Correspondence

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York, 12233-3505

8285/Tech 4.2



John P. Cahill
Commissioner

JWN

MEMORANDUM

TO: John Hyden, NYSDEC Region 9, DER
FROM: Sudhir Mahatma, CSS, BWP, DOW SM
SUBJECT: Chem-Trol Site # 9-15-015
DRAINAGE BASIN: 01-04
DATE: March 2, 2001

RECEIVED

MAR 06 2001

NYSDEC - REG. 9
FOIL
X REL UNREL

In response to your request received on May 26, 1999 by Angus Eaton and a letter of Jan. 29, 2001 from Thomas R. Heins of McMahon & Mann to John W. Hyden of NYSDEC, Buffalo, attached please find revised effluent criteria for the above noted groundwater remediation discharge.

The DOW does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. DER will be responsible for ensuring compliance with the attached effluent criteria and approval of all engineering submissions. Footnote 1 identifies the Bureau of Site Control as the place to send all effluent results, engineering submissions and modification requests. The Regional Water Engineer should be kept apprised of the status of this discharge and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call me at 518-457-9602.

Attachments (Effluent Criteria, General Conditions)

cc: John McMahon, Regional Water Engineer, R-9(w/Effluent Criteria)
A. Eaton, DOW (w/Effluent Criteria)
Terry Olmsted, DOW (w/Effluent Criteria)
Craig Jackson, DER, Rm: 348

| | | | | | |
|-------------------|-----------|---------|---------------|------------|---|
| Post-It® Fax Note | 7671 | Date | 3/23/01 | # of pages | 3 |
| To | Tom Heins | From | John W. Hyden | | |
| Co./Dept. | | Co. | | | |
| Phone # | | Phone # | 716/851-7220 | | |
| Fax # | 834-8934 | Fax # | 851-7226 | | |

91-20-2a (1/89)

Site No.: 9-15-015
Part 1, Page 1 of 2**EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning August 1999

and lasting until August 2004

the discharges from the treatment facility to Smokes Creek, water index number E-2-1, Class C, RECEIVING WATER shall be limited and monitored by the operator as specified below:

| Outfall Number and Parameter | Discharge Limitations | | Units | Minimum Monitoring Requirements | |
|--|-----------------------|-----------|-------|---------------------------------|-------------|
| | Daily Avg. | Daily Max | | Measurement Frequency | Sample Type |
| Outfall 001 - Treated Groundwater Remediation Discharge: | | | | | |
| Flow | 72000 | 144000 | GPD | Continuous | Meter |
| pH (range) | 6.5 to 8.5 | | SU | Weekly | Grab |
| Total Dissolved Solids | Monitor | 2500 | mg/l | Weekly (7) | Grab |
| Total Suspended Solids | Monitor | 20 | mg/l | Weekly (7) | Grab |
| Chloroethane | Monitor | 10 | µg/l | Weekly (7) | Grab |
| 1,1 Dichloroethane | Monitor | 10 | µg/l | Weekly (7) | Grab |
| 1,1 Dichloroethene | Monitor | 10 | µg/l | Weekly (7) | Grab |
| 1,1,1 Trichloroethane | Monitor | 10 | µg/l | Weekly (7) | Grab |
| Trichloroethene | Monitor | 10 | µg/l | Weekly (7) | Grab |
| Benzene | Monitor | 5 | µg/l | Weekly (7) | Grab |
| Toluene | Monitor | 5 | µg/l | Weekly (7) | Grab |
| o-Chlorotoluene | Monitor | 10 | µg/l | Weekly (7) | Grab |
| Chlorobenzene | Monitor | 10 | µg/l | Weekly (7) | Grab |
| cis- 1,2 Dichloroethene | Monitor | 10 | µg/l | Weekly (7) | Grab |
| Aluminum | Monitor | 4000 | µg/l | Weekly (7) | Grab |
| Boron | Monitor | 1800 | µg/l | Weekly (7) | Grab |
| Iron | Monitor | 700 | µg/l | Weekly (7) | Grab |
| Lead | Monitor | 5.6 | µg/l | Weekly (7) | Grab |
| Manganese | Monitor | 2000 | µg/l | Weekly (7) | Grab |
| Zinc | Monitor | 110 | µg/l | Weekly (7) | Grab |

91-29-2a (1/89)

Site No.: 9-15-015
Part 1, Page 2 of 2Additional Conditions:

(1) Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

Chief - Operation Maintenance and Support Section
Bureau of Hazardous Site Control
Division of Environmental Remediation
NYSDEC
50 Wolf Road
Albany, N.Y. 12233-7010

With a copy sent to:

John McMahon, RWE, R-9
NYS Dept. of Env. Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

- (2) Only site generated wastewater is authorized for treatment and discharge.
- (3) Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.
- (4) Both concentration (mg/l or µg/l) and mass loadings (lbs/day) must be reported to the Department for all parameters except flow and pH.
- (5) Any use of corrosion/scale inhibitors or biocidal-type compounds used in the treatment process must be approved by the department prior to use.
- (6) This discharge and administration of this discharge must comply with the attached General Conditions.
- (7) The minimum measurement frequency for all parameters except flow and pH shall be MONTHLY following a period of 24 consecutive weekly sampling events showing no exceedances of stated discharge limitations. If discharge limitation of any parameter is exceeded, the measurement frequency for all parameters shall again be WEEKLY, until a period of 8 (eight) consecutive sampling events showing no exceedances at which point MONTHLY monitoring may resume.

**New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9**

270 Michigan Avenue, Buffalo, New York, 14203-2999

Phone: (716) 851-7220 • FAX: (716) 851-7226

Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

July 27, 2007

Mr. David M. Moreira
Project Manager, Northeast Group
S.C. Holdings, Inc.
4 Liberty Lane West
Hampton, New Hampshire 03842

Dear Mr. Moreira:

December 2005 Discharge Evaluation Report
Chem-Trol Site, Registry No. 915015
Hamburg, Erie County

The Department has completed a detailed review of the December 2005 Discharge Evaluation Report submitted by McMahon & Mann Consulting Engineers, P.C. (MMCE) on behalf of S.C. Holdings, Inc. This report was submitted at the request of the Department (letter dated February 27, 2004, from Glenn M. May to David M. Moreira) to present the results of MMCE's evaluation of the Chem-Trol wastewater treatment system's ability to remove orthochlorotoluene (OCT) and iron to acceptable discharge levels. Based upon this evaluation, MMCE requested modification to the discharge limits for OCT, iron, aluminum, boron, lead, manganese, zinc, and total dissolved solids. The rationale for these requests, along with the Department's responses, are summarized as follows:

OCT: The treatment system effectively reduces OCT to levels consistent with the discharge limits when the air stripper is cleaned with HCl every three to four months, although OCT effluent concentrations occasionally exceed the 10 µg/l discharge limit. MMCE requests a modification of the discharge limit for OCT to 25 µg/l.

The air stripper, when periodically cleaned with HCl, is capable of consistently achieving the current discharge limit. As a result, the Department denies MMCE's request to modify the discharge limit for OCT to 25 µg/l.

Iron: The iron removal filter is not capable of treating wastewater to the discharge limit of 0.7 mg/l. MMCE requests a modification of the discharge limit for iron to 3.0 mg/l based upon iron concentrations in ambient groundwater and surface water samples, and the presence of ferric iron in the discharged water.

Mr. David M. Moreira
July 27, 2007
Page 2

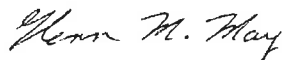
The groundwater monitoring well data provided in the Discharge Evaluation Report indicates that the concentration of iron in ambient groundwater ranges from 1.73 to 11.7 mg/l. Ambient surface water samples collected from an on-site tributary to the South Branch of Smokes Creek also contain iron at concentrations (3.13 to 4.48 mg/l) that exceed the current discharge limit. Further, as the form of iron in the discharge water (ferric) is already oxidized, there would be limited reduction in oxygen levels in the creek. In addition, iron staining at the discharge pipe has not been observed since the discharge water was diverted to the South Branch of Smokes Creek in February 2004. As a result, the Department agrees with the request to increase the iron discharge limit to 3.0 mg/l, recognizing that the need to treat groundwater captured by the site's extraction system to less than ambient conditions is not necessary. This modification will need to be reviewed, however, if iron staining is observed in the future.

Aluminum, Boron, Lead, Manganese, Zinc and Total Dissolved Solids: These parameters were generally not detected, or were detected at concentrations below the discharge limits. MMCE requests that these compounds be removed from the list of parameters analyzed in the influent and effluent samples.

Aluminum, boron, lead, manganese, zinc, and total dissolved solids are not indicators of treatment system performance. As a result, the Department agrees with the request to eliminate these compounds from the compliance monitoring program.

Should you have any questions, please feel free to contact me at (716) 851-7220.

Sincerely yours,



Glenn M. May, CPG
Environmental Geologist II

GMM:lg

cc: Mr. Gregory Sutton, NYSDEC, Region 9
Mr. Brian Sadowski, NYSDEC, Region 9
Mr. James Bojarski, McMahon & Mann Consulting Engineers, P.C.

New York State Department of Environmental Conservation

Division of Environmental Remediation, Region 9

270 Michigan Avenue, Buffalo, New York 14203-2915

Phone: (716) 851-7220 • Fax: (716) 851-7226

Website: www.dec.ny.gov

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MAR 31 2011



Joe Martens
Commissioner

March 29, 2011

Mark Snyder, P.E.
Waste Management
425 Perinton Parkway
Fairport, New York 14450-9104

Dear Mr. Snyder:

2010 Periodic Review Report
Chem-Trol Site, Registry No. 915015
Blasdell, Erie County

The New York State Department of Environmental Conservation (NYSDEC) is in receipt of the 2010 Periodic Review Report (PRR) submitted on February 10, 2011 by McMahon & Mann Consulting Engineers, P.C. (McMahon & Mann), on behalf of SC Holdings, Inc. This report: (1) describes the operation and maintenance activities completed during 2010 on the groundwater collection and treatment system; (2) describes the activities completed during 2010 to evaluate the passive operation of the SVE system; (3) presents the analytical results of groundwater samples collected in October 2010; (4) evaluates the SVE and groundwater collection and treatment systems for compliance with the 1996 ROD; (5) contains a signed Institutional and Engineering Controls (IC/EC) Certification Form; and (6) makes recommendations regarding the future operation of the SVE and groundwater collection and treatment systems. Specifically, McMahon & Mann recommends that: (1) monthly sampling of the groundwater treatment air stripper exhaust be eliminated; and (2) that active operation of the SVE system permanently cease.

Information contained in the 2010 PRR indicates that the SVE and groundwater collection and treatment systems are operating effectively and remain protective of public health and the environment. This letter, therefore, transmits formal NYSDEC approval of the 2010 PRR for the Chem-Trol Site. With this approval, please send us an electronic copy of the 2010 PRR.

Regarding McMahon & Mann's recommendations, I understand that McMahon & Mann has contacted the NYSDEC's Division of Air in Region 9 concerning the elimination of the monthly air stripper sampling. Please copy me on all correspondence to the Division of Air regarding this issue and the outcome of said correspondence.

Mark Snyder, P.E.


March 29, 2011

Page 2

The NYSDEC concurs with McMahon & Mann's recommendations to permanently cease the active operation of the SVE system. It is our understanding that passive venting of the SVE system laterals will continue in the future.

Should you have any questions, please feel free to contact me at (716) 851-7220.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Glenn M. May".

Glenn M. May, CPG
Environmental Geologist II

GMM:sz

ecc: Mr. Gregory Sutton, NYSDEC, Region 9
Mr. Alfred Carlacci, NYSDEC, Region 9
Mr. Brian Sadowski, NYSDEC, Region 9
Mr. Alan Zylinski, NYSDEC, Region 9
Mr. James Bojarski, McMahon & Mann

New York State Department of Environmental Conservation

Division of Air Resources, Region 9

270 Michigan Avenue, Buffalo, New York 14203-2915

Phone: (716) 851-7130 • Fax: (716) 851-7009

Website: www.dec.ny.gov



Joe Martens
Commissioner

April 26, 2011

Mr. John A. Minichiello, CPESC, CPSWQ
McMahon & Mann Consulting Engineers, P.C.
2495 Main Street, Suite 432
Buffalo, New York 14214

Dear Mr. Minichiello:

**Chem-Trol Site, Registry No. 9-15-015
Blasdell, Erie County
Request to Eliminate Air Stripper
Emissions Testing**

The New York State Department of Environmental Conservation (Department) received a report requesting the elimination of the sampling and analytical testing of the air stripper exhaust associated with the groundwater collection and treatment system at the Chem-Trol Site. This report was submitted on April 6, 2011 by McMahon & Mann Consulting Engineers, P.C. (MMCE), on behalf of SC Holdings, Inc. After review of the report, the Department approves the request because the analytical data indicates that concentrations of o-chlorotoluene in the influent to the groundwater treatment system have stabilized.

Should you have any questions, please feel free to contact me at (716) 851-7130.

Sincerely yours,

Alan J. Zylinski, P.E.
Environmental Engineer II

AJZ:ed

ecc: Mr. Gregory Sutton, NYSDEC, Region 9
Mr. Alfred Carlacci, NYSDEC, Region 9
Mr. Brian Sadowski, NYSDEC, Region 9
Mr. Glenn May, NYSDEC, Region 9

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7275
www.dec.ny.gov

May 4, 2023

Mr. Ryan Donovan, District Manager
SC Holdings, Inc.
600 New Ludlow Road
South Hadley, MA 01075

2021 Periodic Review Report
Chem-Trol, Site No. 915015
Blasdell, Erie County

Dear Mr. Donovan:

The New York State Department of Environmental Conservation (NYSDEC) has reviewed the Periodic Review Report (PRR) and IC/EC Certification for the period from February 15, 2022, to February 15, 2023. This PRR proposes a reduction in periodic monitoring requirements, which are summarized as follows:

- **Treated groundwater influent and effluent sampling**: Reduce the required monitoring from monthly to every other month. System cleanings would be performed on non-sample months to ensure a site visit is made and to monitor the operation of the system.
- **Annual groundwater monitoring**: Reduce long-term groundwater monitoring of the six wells from annual to bi-annual (every other year). Given the stability of these parameters, bi-annual sampling would continue to provide an adequate assessment of the stability of the groundwater recovery and treatment system.
- **Groundwater level gauging**: Reduce from quarterly to semi-annually in April and October. Groundwater contour figures would be prepared and submitted with the monitoring reports.
- **Periodic reporting**: A change to semi-annual reporting is proposed, to include system sampling, inspections, and groundwater contours for the reporting period.

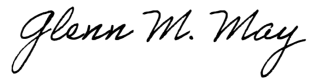
The Department hereby accepts the PRR and associated Certification, and approves the proposed reduction in periodic monitoring requirements.

The frequency of Periodic Reviews for this site is one year, so your next PRR is due in March 2024. You will receive a reminder letter and updated certification form prior to that due date. Please note that if you do not receive the reminder notice, the next PRR including the signed certification form is still due on the date specified above.



Should you have any questions, please contact me at 716-851-7220 or via e-mail at:
glenn.may@dec.ny.gov.

Sincerely,

A handwritten signature in black ink that reads "Glenn M. May". The script is cursive and fluid, with the first letters of each name being capitalized and prominent.

Glenn M. May, PG
Professional Geologist I

cc: Stanley Radon, NYSDEC, Buffalo
Andrea Caprio, NYSDEC, Buffalo
James Kaczor, AECOM, Buffalo

ATTACHMENT C

**August 2024 – February 2025 Treatment System Influent/Effluent Monitoring Data
Tables, Site Inspection Checklists, and Laboratory Reports**

Table 1
September 24, 2024 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

| Parameters | Concentration | | | | Mass Loading | | |
|------------------------|---------------|----------|-----------------------|----------------|--------------|-----------------------|---------|
| | Influent | Effluent | Discharge Limitations | Units | Effluent | Discharge Limitations | Units |
| Flow * | 2,970 | 2,970 | 144,000 | gpd | NA | NA | NA |
| pH | 6.7 | 7.7 | 6.5 to 8.5 | standard units | NA | NA | NA |
| Toluene | < 9.1 | < 5 | 5 | ug/L | < 0.0001 | 0.006 | lbs/day |
| Chlorobenzene | < 9.5 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| cis-1,2-Dichloroethene | < 11 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| Benzene | < 12 | < 5 | 5 | ug/L | < 0.0001 | 0.006 | lbs/day |
| 1,1,1-Trichloroethane | < 7.7 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| Chloroethane | 26 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| 1,1-Dichloroethane | 23 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| 1,1-Dichloroethene | < 17 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| Trichloroethene | < 12 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| o-Chlorotoluene | 640 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| Iron - Total | 1,270 | 218 | 3,000 | ug/L | 0.01 | 3.61 | lbs/day |
| TSS | < 4 | < 4 | 20 | mg/L | < 0.10 | | lbs/day |

Notes:

- 1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.
 - 2) < indicates Not Detected at or above the laboratory reporting limit.
 - 3) NA indicates Not Applicable.
 - 4) "J" indicates an estimated concentration below the method detection limit.
 - 5) E - Estimated Value, result above calibration curve
 - 6) D - Dilution
 - 7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.
- * Average daily flow as measured July 23, 2024 through September 24, 2024.

Table 2
September 24, 2024 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

| Instrumentation/Readings: | | Current Report | | Prior Report |
|----------------------------------|--|-----------------------|-------------------------|---------------------|
| | | 9/24/2024 | units | 7/23/2024 |
| <i>EW-1</i> | | | | |
| | Pumping Rate | 1.70 | GPM | 2.40 |
| | Water Level Above Transducer | 153 | Inches | 181 |
| | Flow Meter Reading | NW | gallons | NW |
| <i>EW-2</i> | | | | |
| | Pumping Rate | 0.0 | GPM | 0.4 |
| | Water Level Above Transducer | 168 | Inches | 173 |
| | Flow Meter Reading | 28,543,853 | gallons | 28,543,853 |
| <i>EW-3</i> | | | | |
| | Pumping Rate | 0.0 | GPM | 0.2 |
| | Water Level Above Transducer | 118 | Inches | 201 |
| | Flow Meter Reading | NW | gallons | NW |
| <i>Air Stripper</i> | | | | |
| | Stripper Blower Pressure | NW | inches H ₂ O | NW |
| <i>Effluent Flow</i> | | | | |
| | Total System Meter Reading | 77,560,690 | gallons | 77,379,490 |
| | Average System Flow Since Prior Report | 2,970 | gpd | |
| | | 123.8 | gph | |
| | | 2.1 | gpm | |
| | Influent o-Chlorotoluene concentration | 640 | ug/L | |
| | Current month mass removal | 0.4 | kilograms | |

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter

Table 1
November 12, 2024 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

| Parameters | Concentration | | | | Mass Loading | | |
|------------------------|---------------|----------|-----------------------|----------------|--------------|-----------------------|---------|
| | Influent | Effluent | Discharge Limitations | Units | Effluent | Discharge Limitations | Units |
| Flow * | 2,752 | 2,752 | 144,000 | gpd | NA | NA | NA |
| pH | 7.0 | 7.8 | 6.5 to 8.5 | standard units | NA | NA | NA |
| Toluene | < 9.1 | < 5 | 5 | ug/L | < 0.0001 | 0.006 | lbs/day |
| Chlorobenzene | < 9.5 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| cis-1,2-Dichloroethene | < 11 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| Benzene | < 12 | < 5 | 5 | ug/L | < 0.0001 | 0.006 | lbs/day |
| 1,1,1-Trichloroethane | < 7.7 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| Chloroethane | < 17 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| 1,1-Dichloroethane | 19 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| 1,1-Dichloroethene | < 17 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| Trichloroethene | < 12 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| o-Chlorotoluene | 1,100 | < 5 | 10 | ug/L | < 0.0001 | 0.012 | lbs/day |
| Iron - Total | 1,150 | 1,050 | 3,000 | ug/L | 0.02 | 3.61 | lbs/day |
| TSS | < 4 | 18.8 | 20 | mg/L | 0.43 | | lbs/day |

Notes:

- 1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.
- 2) < indicates Not Detected at or above the laboratory reporting limit.
- 3) NA indicates Not Applicable.
- 4) "J" indicates an estimated concentration below the method detection limit.
- 5) E - Estimated Value, result above calibration curve
- 6) D - Dilution
- 7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.

* Average daily flow as measured September 24, 2024 through November 12, 2024.

Table 2
November 12, 2024 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

| Instrumentation/Readings: | | Current Report | | Prior Report |
|----------------------------------|--|-----------------------|-------------------------|---------------------|
| | | 11/12/2024 | units | 9/24/2024 |
| <i>EW-1</i> | | | | |
| | Pumping Rate | 1.80 | GPM | 1.70 |
| | Water Level Above Transducer | 186 | Inches | 153 |
| | Flow Meter Reading | NW | gallons | NW |
| <i>EW-2</i> | | | | |
| | Pumping Rate | 0.3 | GPM | 0.0 |
| | Water Level Above Transducer | 182 | Inches | 168 |
| | Flow Meter Reading | 28,543,853 | gallons | 28,543,853 |
| <i>EW-3</i> | | | | |
| | Pumping Rate | 0.5 | GPM | 0.0 |
| | Water Level Above Transducer | 113 | Inches | 118 |
| | Flow Meter Reading | NW | gallons | NW |
| <i>Air Stripper</i> | | | | |
| | Stripper Blower Pressure | NW | inches H ₂ O | NW |
| <i>Effluent Flow</i> | | | | |
| | Total System Meter Reading | 77,692,765 | gallons | 77,560,690 |
| | Average System Flow Since Prior Report | 2,752 | gpd | |
| | | 114.6 | gph | |
| | | 1.9 | gpm | |
| | Influent o-Chlorotoluene concentration | 1,100 | ug/L | |
| | Current month mass removal | 0.5 | kilograms | |

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter

Table 1
January 8, 2025 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

| Parameters | Concentration | | | | Mass Loading | | |
|------------------------|---------------|----------|-----------------------|----------------|--------------|-----------------------|---------|
| | Influent | Effluent | Discharge Limitations | Units | Effluent | Discharge Limitations | Units |
| Flow * | 4,225 | 4,225 | 144,000 | gpd | NA | NA | NA |
| pH | 7.7 | 7.77 | 6.5 to 8.5 | standard units | NA | NA | NA |
| Toluene | < 5 | < 5 | 5 | ug/L | < 0.0002 | 0.006 | lbs/day |
| Chlorobenzene | < 5 | < 5 | 10 | ug/L | < 0.0002 | 0.012 | lbs/day |
| cis-1,2-Dichloroethene | 3.1 | < 5 | 10 | ug/L | < 0.0002 | 0.012 | lbs/day |
| Benzene | 0.87 J | < 5 | 5 | ug/L | < 0.0002 | 0.006 | lbs/day |
| 1,1,1-Trichloroethane | 4.8 | < 5 | 10 | ug/L | < 0.0002 | 0.012 | lbs/day |
| Chloroethane | 27 | < 5 | 10 | ug/L | < 0.0002 | 0.012 | lbs/day |
| 1,1-Dichloroethane | 44 | 1.6 | 10 | ug/L | 0.0001 | 0.012 | lbs/day |
| 1,1-Dichloroethene | 2.2 | < 5 | 10 | ug/L | < 0.0002 | 0.012 | lbs/day |
| Trichloroethene | 3.1 | < 5 | 10 | ug/L | < 0.0002 | 0.012 | lbs/day |
| o-Chlorotoluene | 440 | 0.99 J | 10 | ug/L | 0.0000 | 0.012 | lbs/day |
| Iron - Total | 2,960 | 708 | 3,000 | ug/L | 0.0250 | 3.61 | lbs/day |
| TSS | 5 | 10 | 20 | mg/L | 0.3530 | | lbs/day |

Notes:

- 1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.
 - 2) < indicates Not Detected at or above the laboratory reporting limit.
 - 3) NA indicates Not Applicable.
 - 4) "J" indicates an estimated concentration below the method detection limit.
 - 5) E - Estimated Value, result above calibration curve
 - 6) D - Dilution
 - 7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.
- * Average daily flow as measured November 12, 2024 through January 8, 2025.

Table 2
January 8, 2025 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

| Instrumentation/Readings: | | Current Report | | Prior Report |
|----------------------------------|--|-----------------------|-------------------------|---------------------|
| | | 1/8/2025 | units | 11/12/2024 |
| <i>EW-1</i> | | | | |
| | Pumping Rate | 2.20 | GPM | 1.80 |
| | Water Level Above Transducer | 220 | Inches | 186 |
| | Flow Meter Reading | NW | gallons | NW |
| <i>EW-2</i> | | | | |
| | Pumping Rate | 0.8 | GPM | 0.3 |
| | Water Level Above Transducer | 203 | Inches | 182 |
| | Flow Meter Reading | 28,543,853 | gallons | 28,543,853 |
| <i>EW-3</i> | | | | |
| | Pumping Rate | 0.0 | GPM | 0.5 |
| | Water Level Above Transducer | 163 | Inches | 113 |
| | Flow Meter Reading | NW | gallons | NW |
| <i>Air Stripper</i> | | | | |
| | Stripper Blower Pressure | NW | inches H ₂ O | NW |
| <i>Effluent Flow</i> | | | | |
| | Total System Meter Reading | 77,929,350 | gallons | 77,692,765 |
| | Average System Flow Since Prior Report | 4,225 | gpd | |
| | | 176.0 | gph | |
| | | 2.934 | gpm | |
| | Influent o-Chlorotoluene concentration | 440 | ug/L | |
| | Current month mass removal | 0.394 | kilograms | |

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: C. Horrocks, C. Finn and D. VanMarter Weather/Temperature: Partly Cloudy, 72°F
Date: 8/7/2024 Arrival Time: 0800 Departure Time: 13:00

Reason for Service: Inspect system, clean system

| <u>Inspection Items:</u> | <u>OK:</u> | <u>Comments:</u> |
|---------------------------------|------------|---|
| Site Appearance/Condition | <u>X</u> | <u>See Notes/Explanations section.</u> |
| <i>Building Exterior</i> | | |
| Overhead Door | <u>X</u> | <u>Wood lintel and metal trim repaired.</u> |
| Siding | <u>X</u> | <u>Metal trim repaired.</u> |
| Roof and Discharge Pipe | <u>X</u> | <u></u> |
| <i>Building Interior</i> | | |
| Indication of Spills or Leaks | <u>X</u> | <u></u> |
| Building Heater | <u>X</u> | <u>Turned On</u> |
| Phone System | <u>X</u> | <u>Disconnected</u> |
| Exhaust Fan | <u></u> | <u>Could not get fan to work.</u> |
| Fire Extinguisher | <u>X</u> | <u></u> |
| First Aid & Eye Wash | <u>X</u> | <u></u> |

Groundwater Treatment System

| | | |
|---------------------|-----------|--|
| Air Stripper | X | |
| Iron Removal Filter | NA | As of June 2021, there is no longer an iron removal filter tank. |
| Flow Meters | X | See Notes/Explanations section. |
| Gauges | X | |
| Stripper Blower | X | |
| Indication of Alarm | X | |

Groundwater Treatment Wells

| | | |
|------------------|----------|---|
| EW-1 Pump | X | |
| EW-1 Transducer | X | |
| EW-1 Flow Meter | | EW-1 flow meter/totalizer screen no longer functioning. |
| EW-2 Pump | X | |
| EW-2 Transducer | X | |
| EW- 2 Flow Meter | X | |
| EW-3 Pump | X | |
| EW-3 Transducer | X | |
| EW-3 Flow Meter | | EW-3 flow meter/totalizer screen no longer functioning. |

Effluent Discharge

| | | |
|----------|----------|---------|
| Outfall | X | Flowing |
| Cleanout | X | |

Instrumentation/Readings:

EW-1

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>UNK</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>173</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

EW-2

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>UNK</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>179</u> Inches |
| Flow Meter Reading | <u>28,543,853</u> Gallons |

EW-3

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>UNK</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>126</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

Air Stripper

| | |
|-------------------------------------|--------------------------|
| Stripper Blower Pressure (Panel) | <u>Broken</u> Inches H2O |
| Stripper Blower Pressure (Stripper) | <u>Broken</u> Inches H2O |

Effluent Flow

| | |
|----------------------------|---------------------------|
| Total System Meter Reading | <u>77,429,796</u> Gallons |
|----------------------------|---------------------------|

Influent/Effluent Sampling

No Sampling was performed.

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival. Shut down the system and turned the main breaker off to reboot the computer. Upon restarting the system, the main computer screen reset and was functioning properly.

Upon the completion of the cleaning of the system and shed, the system was successfully turned back on. Total system flow was timed at 3.2 gpm on the system totalizer flow meter.

The most recent round of water levels (3Q2024) was collected July 29, 2023.

The air stripper trays were last mechanically cleaned today, August 7, 2024.

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: C. Horrocks, T. Urban and D. VanMarter Weather/Temperature: Sunny, 80°F

Date: 9/13/2024 Arrival Time: 0730 Departure Time: 13:30

Reason for Service: Inspect system, clean system

| <u>Inspection Items:</u> | <u>OK:</u> | <u>Comments:</u> |
|---------------------------------|------------|---|
| Site Appearance/Condition | <u>X</u> | <u>See Notes/Explanations section.</u> |
| <i>Building Exterior</i> | | |
| Overhead Door | <u>X</u> | <u>Wood lintel and metal trim repaired.</u> |
| Siding | <u>X</u> | <u>Metal trim repaired.</u> |
| Roof and Discharge Pipe | <u>X</u> | <u></u> |
| <i>Building Interior</i> | | |
| Indication of Spills or Leaks | <u>X</u> | <u></u> |
| Building Heater | <u>X</u> | <u>Turned Off</u> |
| Phone System | <u>X</u> | <u>Disconnected</u> |
| Exhaust Fan | <u></u> | <u>Could not get fan to work.</u> |
| Fire Extinguisher | <u>X</u> | <u></u> |
| First Aid & Eye Wash | <u>X</u> | <u></u> |

Groundwater Treatment System

| | | |
|---------------------|-----------|--|
| Air Stripper | X | |
| Iron Removal Filter | NA | As of June 2021, there is no longer an iron removal filter tank. |
| Flow Meters | X | See Notes/Explanations section. |
| Gauges | X | |
| Stripper Blower | X | |
| Indication of Alarm | X | |

Groundwater Treatment Wells

| | | |
|------------------|----------|---|
| EW-1 Pump | X | |
| EW-1 Transducer | X | |
| EW-1 Flow Meter | | EW-1 flow meter/totalizer screen no longer functioning. |
| EW-2 Pump | X | |
| EW-2 Transducer | X | |
| EW- 2 Flow Meter | X | |
| EW-3 Pump | X | |
| EW-3 Transducer | X | |
| EW-3 Flow Meter | | EW-3 flow meter/totalizer screen no longer functioning. |

Effluent Discharge

| | | |
|----------|----------|---------|
| Outfall | X | Flowing |
| Cleanout | X | |

Instrumentation/Readings:

EW-1

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>1.6</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>160</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

EW-2

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.3</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>175</u> Inches |
| Flow Meter Reading | <u>28,543,853</u> Gallons |

EW-3

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.0</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>125</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

Air Stripper

| | |
|-------------------------------------|--------------------------|
| Stripper Blower Pressure (Panel) | <u>Broken</u> Inches H2O |
| Stripper Blower Pressure (Stripper) | <u>Broken</u> Inches H2O |

Effluent Flow

| | |
|----------------------------|---------------------------|
| Total System Meter Reading | <u>77,530,814</u> Gallons |
|----------------------------|---------------------------|

Influent/Effluent Sampling

No Sampling was performed.

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival. Shut down the system and turned the main breaker off for cleaning.

Upon the completion of the cleaning of the system and shed, the system was successfully turned back on. Total system flow was timed at 4.0 gpm on the system totalizer flow meter.

The most recent round of water levels (3Q2024) was collected July 29, 2024.

The air stripper trays were last mechanically cleaned today, September 13, 2024.

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Tom Urban Weather/Temperature: Partly sunny, calm, 70°F

Date: 9/24/2024 Arrival Time: 8:00 Departure Time: 9:00

Reason for Service: Inspect system, perform monthly sampling

Inspection Items:

OK:

Comments:

Site Appearance/Condition

X

See Notes/Explanations section.

Building Exterior

Overhead Door

X

Siding

X

Roof and Discharge Pipe

X

Building Interior

Indication of Spills or Leaks

X

Building Heater

X

Turned Off

Phone System

X

Disconnected

Exhaust Fan

Could not get fan to work.

Fire Extinguisher

X

First Aid & Eye Wash

X

Groundwater Treatment System

| | | |
|---------------------|-----------|--|
| Air Stripper | X | |
| Iron Removal Filter | NA | As of June 2021, there is no longer an iron removal filter tank. |
| Flow Meters | X | See Notes/Explanations section. |
| Gauges | X | |
| Stripper Blower | X | |
| Indication of Alarm | X | |

Groundwater Treatment Wells

| | | |
|------------------|----------|---|
| EW-1 Pump | X | |
| EW-1 Transducer | X | |
| EW-1 Flow Meter | | EW-1 flow meter/totalizer screen no longer functioning. |
| EW-2 Pump | X | |
| EW-2 Transducer | X | |
| EW- 2 Flow Meter | X | |
| EW-3 Pump | X | |
| EW-3 Transducer | X | |
| EW-3 Flow Meter | | EW-3 flow meter/totalizer screen no longer functioning. |

Effluent Discharge

| | | |
|----------|----------|---------|
| Outfall | X | Flowing |
| Cleanout | X | |

Instrumentation/Readings:

EW-1

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>1.7</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>153</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

EW-2

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.0</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>168</u> Inches |
| Flow Meter Reading | <u>28,543,853</u> Gallons |

EW-3

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.0</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>118</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

Air Stripper

| | |
|-------------------------------------|--------------------------|
| Stripper Blower Pressure (Panel) | <u>Broken</u> Inches H2O |
| Stripper Blower Pressure (Stripper) | <u>Broken</u> Inches H2O |

Effluent Flow

| | |
|----------------------------|---------------------------|
| Total System Meter Reading | <u>77,560,690</u> Gallons |
|----------------------------|---------------------------|

Influent/Effluent Sampling

AQUEOUS:

Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

| | | |
|-------------|------------|--------------------|
| Influent pH | <u>7.0</u> | (field test strip) |
| Effluent pH | <u>7.0</u> | (field test strip) |

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival.

Total system flow was timed at 1.7 gpm on system totalizer flow meter. Timed each EW gpm by shutting off flow from other 2 EWs.

The SVE building overhead door flashing has wind and header damage.

The most recent round of water levels (3Q2024) was collected July 29, 2024.

The air stripper trays were last mechanically cleaned September 13, 2024.

The monthly influent/effluent samples were collected today September 24, 2024.

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: R. Murphy, C. Finn Weather/Temperature: Cloudy, rain, 62°F

Date: 10/29/2024 Arrival Time: 0730 Departure Time: 15:30

Reason for Service: Inspect system, clean system

| <u>Inspection Items:</u> | <u>OK:</u> | <u>Comments:</u> |
|---------------------------------|------------|---|
| Site Appearance/Condition | <u>X</u> | <u>See Notes/Explanations section.</u> |
| <i>Building Exterior</i> | | |
| Overhead Door | <u>X</u> | <u>Wood lintel and metal trim repaired.</u> |
| Siding | <u>X</u> | <u>Metal trim repaired.</u> |
| Roof and Discharge Pipe | <u>X</u> | <u></u> |
| <i>Building Interior</i> | | |
| Indication of Spills or Leaks | <u>X</u> | <u></u> |
| Building Heater | <u>X</u> | <u>Turned Off</u> |
| Phone System | <u>X</u> | <u>Disconnected</u> |
| Exhaust Fan | <u></u> | <u>Could not get fan to work.</u> |
| Fire Extinguisher | <u>X</u> | <u></u> |
| First Aid & Eye Wash | <u>X</u> | <u></u> |

Groundwater Treatment System

| | | |
|---------------------|-----------|--|
| Air Stripper | X | |
| Iron Removal Filter | NA | As of June 2021, there is no longer an iron removal filter tank. |
| Flow Meters | X | See Notes/Explanations section. |
| Gauges | X | |
| Stripper Blower | X | |
| Indication of Alarm | X | |

Groundwater Treatment Wells

| | | |
|------------------|----------|---|
| EW-1 Pump | X | |
| EW-1 Transducer | X | |
| EW-1 Flow Meter | | EW-1 flow meter/totalizer screen no longer functioning. |
| EW-2 Pump | X | |
| EW-2 Transducer | X | |
| EW- 2 Flow Meter | X | |
| EW-3 Pump | X | |
| EW-3 Transducer | X | |
| EW-3 Flow Meter | | EW-3 flow meter/totalizer screen no longer functioning. |

Effluent Discharge

| | | |
|----------|----------|---------|
| Outfall | X | Flowing |
| Cleanout | X | |

Instrumentation/Readings:

EW-1

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>1.8</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>157</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

EW-2

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.3</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>177</u> Inches |
| Flow Meter Reading | <u>28,543,853</u> Gallons |

EW-3

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.0</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>99</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

Air Stripper

| | |
|-------------------------------------|--------------------------|
| Stripper Blower Pressure (Panel) | <u>Broken</u> Inches H2O |
| Stripper Blower Pressure (Stripper) | <u>Broken</u> Inches H2O |

Effluent Flow

| | |
|----------------------------|---------------------------|
| Total System Meter Reading | <u>77,649,540</u> Gallons |
|----------------------------|---------------------------|

Influent/Effluent Sampling

No Sampling was performed.

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival. Shut down the system and turned the main breaker off for cleaning.

Upon the completion of the cleaning of the system and shed, the system was successfully turned back on. Total system flow was timed at 2.5 gpm on the system totalizer flow meter. Timed each EW gpm by shutting off flow from other 2 EWs. EW-3 was flowing, but at too low of rate by itself to register on the flow meter.

The most recent round of water levels (4Q2024) was collected September 25, 2024.

The air stripper trays were last mechanically cleaned today, October 29, 2024.

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: C. Finn Weather/Temperature: Partly cloudy, mid-40s °F
Date: 11/12/2024 Arrival Time: 08:45 Departure Time: 10:15

Reason for Service: Inspect system, perform monthly sampling

| <u>Inspection Items:</u> | <u>OK:</u> | <u>Comments:</u> |
|---------------------------------|------------|---|
| Site Appearance/Condition | <u>X</u> | <u>See Notes/Explanations section.</u> |
| <i>Building Exterior</i> | | |
| Overhead Door | <u>X</u> | <u>Wood lintel and metal trim repaired.</u> |
| Siding | <u>X</u> | <u>Metal trim repaired.</u> |
| Roof and Discharge Pipe | <u>X</u> | <u></u> |
| <i>Building Interior</i> | | |
| Indication of Spills or Leaks | <u>X</u> | <u></u> |
| Building Heater | <u>X</u> | <u>Turned Off</u> |
| Phone System | <u>X</u> | <u>Disconnected</u> |
| Exhaust Fan | <u></u> | <u>Could not get fan to work.</u> |
| Fire Extinguisher | <u>X</u> | <u></u> |
| First Aid & Eye Wash | <u>X</u> | <u></u> |

Groundwater Treatment System

| | | |
|---------------------|-----------|--|
| Air Stripper | X | |
| Iron Removal Filter | NA | As of June 2021, there is no longer an iron removal filter tank. |
| Flow Meters | X | See Notes/Explanations section. |
| Gauges | X | |
| Stripper Blower | X | |
| Indication of Alarm | X | |

Groundwater Treatment Wells

| | | |
|------------------|----------|---|
| EW-1 Pump | X | |
| EW-1 Transducer | X | |
| EW-1 Flow Meter | | EW-1 flow meter/totalizer screen no longer functioning. |
| EW-2 Pump | X | |
| EW-2 Transducer | X | |
| EW- 2 Flow Meter | X | |
| EW-3 Pump | X | |
| EW-3 Transducer | X | |
| EW-3 Flow Meter | | EW-3 flow meter/totalizer screen no longer functioning. |

Effluent Discharge

| | | |
|----------|----------|---------|
| Outfall | X | Flowing |
| Cleanout | X | |

Instrumentation/Readings:

EW-1

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>1.8</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>186</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

EW-2

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.3</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>182</u> Inches |
| Flow Meter Reading | <u>28,543,853</u> Gallons |

EW-3

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.5</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>113</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

Air Stripper

| | |
|-------------------------------------|--------------------------|
| Stripper Blower Pressure (Panel) | <u>Broken</u> Inches H2O |
| Stripper Blower Pressure (Stripper) | <u>Broken</u> Inches H2O |

Effluent Flow

| | |
|----------------------------|---------------------------|
| Total System Meter Reading | <u>77,692,765</u> Gallons |
|----------------------------|---------------------------|

Influent/Effluent Sampling

AQUEOUS:

Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

| | | |
|-------------|------------|--------------------|
| Influent pH | <u>7.0</u> | (field test strip) |
| Effluent pH | <u>7.0</u> | (field test strip) |

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival. Shut down the system and turned the main breaker off for cleaning.

Total system flow was timed at 2.5 gpm on the system totalizer flow meter. Timed each EW gpm by shutting off flow from other 2 EWs. EW-3 was flowing, but at too low of rate by itself to register on the flow meter.

The most recent round of water levels (3Q2024) was collected September 25, 2024.

The air stripper trays were last mechanically cleaned October 29, 2024.

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Tom Urban Weather/Temperature: Cloudy, calm, 20°F

Date: 01/08/2025 Arrival Time: 09:00 Departure Time: 10:30

Reason for Service: Inspect system, influent/effluent sampling

Inspection Items:

OK:

Comments:

Site Appearance/Condition

X

See Notes/Explanations section.

Building Exterior

Overhead Door

X

Siding

X

Roof and Discharge Pipe

X

Building Interior

Indication of Spills or Leaks

X

Building Heater

X

Turned On

Phone System

X

Disconnected

Exhaust Fan

Could not get fan to work.

Fire Extinguisher

X

First Aid & Eye Wash

X

Groundwater Treatment System

| | | |
|---------------------|-----------|--|
| Air Stripper | X | |
| Iron Removal Filter | NA | As of June 2021, there is no longer an iron removal filter tank. |
| Flow Meters | X | See Notes/Explanations section. |
| Gauges | X | |
| Stripper Blower | X | |
| Indication of Alarm | X | |

Groundwater Treatment Wells

| | | |
|------------------|----------|---|
| EW-1 Pump | X | |
| EW-1 Transducer | X | |
| EW-1 Flow Meter | | EW-1 flow meter/totalizer screen no longer functioning. |
| EW-2 Pump | X | |
| EW-2 Transducer | X | |
| EW- 2 Flow Meter | X | |
| EW-3 Pump | X | |
| EW-3 Transducer | X | |
| EW-3 Flow Meter | | EW-3 flow meter/totalizer screen no longer functioning. |

Effluent Discharge

| | | |
|----------|----------|---------|
| Outfall | X | Flowing |
| Cleanout | X | |

Instrumentation/Readings:

EW-1

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>2.2</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>220</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

EW-2

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.8</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>203</u> Inches |
| Flow Meter Reading | <u>28,543,853</u> Gallons |

EW-3

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.0</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>163</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

Air Stripper

| | |
|-------------------------------------|--------------------------|
| Stripper Blower Pressure (Panel) | <u>Broken</u> Inches H2O |
| Stripper Blower Pressure (Stripper) | <u>Broken</u> Inches H2O |

Effluent Flow

| | |
|----------------------------|---------------------------|
| Total System Meter Reading | <u>77,929,350</u> Gallons |
|----------------------------|---------------------------|

Influent/Effluent Sampling

AQUEOUS:

Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624.1 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D

pH measurements and temperature must be made in the field:

| | | | | |
|-------------|-------------|------------------|------------|------------------------------------|
| Influent pH | <u>7.70</u> | Temperature (°C) | <u>7.1</u> | (Oakton pHTestr 30 s/n T311487089) |
| Effluent pH | <u>7.77</u> | Temperature (°C) | <u>7.6</u> | (Oakton pHTestr 30 s/n T311487089) |

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival.

System alarm “E-STOP PRESSED” display on control panel was acknowledged and cleared (2/13/99 at 6:18:57 PM). Two other alarms were cleared: “WELL #1 HIGH LEVEL” (1/8/99 at 2:15:14 PM) and “AIR STRIPPER OFF” (1/7/99 at 7:23:25 PM).

Total system flow was timed at 3.0 gpm on the system totalizer flow meter. Timed each EW gpm by shutting off flow from other 2 EWs. EW-3 was not flowing.

The most recent round of water levels (3Q2024) was collected September 25, 2024.

The air stripper trays were last mechanically cleaned on October 29, 2024.

The bi-monthly influent/effluent samples were collected today, January 8, 2025.

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: T. Urban, E. Smith, C. Horrocks Weather/Temperature: Partly cloudy, calm, 25°F
Date: 02/04/2025 Arrival Time: 08:00 Departure Time: 13:30

Reason for Service: Inspect system, clean system

| <u>Inspection Items:</u> | <u>OK:</u> | <u>Comments:</u> |
|---------------------------------|-------------------|--|
| Site Appearance/Condition | <u>X</u> | <u>See Notes/Explanations section.</u> |
| <i>Building Exterior</i> | | |
| Overhead Door | <u>X</u> | <u></u> |
| Siding | <u>X</u> | <u></u> |
| Roof and Discharge Pipe | <u>X</u> | <u></u> |
| <i>Building Interior</i> | | |
| Indication of Spills or Leaks | <u>X</u> | <u></u> |
| Building Heater | <u>X</u> | <u>Turned On</u> |
| Phone System | <u>X</u> | <u>Disconnected</u> |
| Exhaust Fan | <u></u> | <u>Could not get fan to work.</u> |
| Fire Extinguisher | <u>X</u> | <u></u> |
| First Aid & Eye Wash | <u>X</u> | <u></u> |

Groundwater Treatment System

| | | |
|---------------------|-----------|--|
| Air Stripper | X | |
| Iron Removal Filter | NA | As of June 2021, there is no longer an iron removal filter tank. |
| Flow Meters | X | See Notes/Explanations section. |
| Gauges | X | |
| Stripper Blower | X | |
| Indication of Alarm | X | |

Groundwater Treatment Wells

| | | |
|------------------|----------|---|
| EW-1 Pump | X | |
| EW-1 Transducer | X | |
| EW-1 Flow Meter | | EW-1 flow meter/totalizer screen no longer functioning. |
| EW-2 Pump | X | |
| EW-2 Transducer | X | |
| EW- 2 Flow Meter | X | EW-2 flow meter/totalizer screen no longer functioning. Frozen on 28,543,853 gallons. |
| EW-3 Pump | X | |
| EW-3 Transducer | X | |
| EW-3 Flow Meter | | EW-3 flow meter/totalizer screen no longer functioning. |

Effluent Discharge

| | | |
|----------|----------|---------|
| Outfall | X | Flowing |
| Cleanout | X | |

Instrumentation/Readings:

EW-1

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>1.8</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>250</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

EW-2

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.0</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>“***”</u> Inches |
| Flow Meter Reading | <u>28,543,853</u> Gallons (frozen) |

EW-3

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.0</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>160</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

Air Stripper

| | |
|-------------------------------------|--------------------------|
| Stripper Blower Pressure (Panel) | <u>Broken</u> Inches H2O |
| Stripper Blower Pressure (Stripper) | <u>Broken</u> Inches H2O |

Effluent Flow

| | |
|----------------------------|---------------------------|
| Total System Meter Reading | <u>78,012,748</u> Gallons |
|----------------------------|---------------------------|

Influent/Effluent Sampling

No Sampling was performed.

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival.

Three system alarms: “WELL #1 HIGH LEVEL” (4/15/99 at 9:05:32 PM), “WELL #2 LOW LEVEL” (4/8/99 at 1:24:40 PM), and “WELL #2 HIGH LEVEL” (4/8/99 at 12:14:02 AM) on the control panel display were acknowledged and cleared.

Shut down the system and turned the main breaker off for cleaning.

Upon completion of cleaning the system, the system was turned back on. Total system flow was timed at 2.2 gpm on the system totalizer flow meter after cleaning.

The most recent round of water levels was collected September 25, 2024.

The bi-monthly influent/effluent samples were collected on January 8, 2025.

The air stripper trays were last mechanically cleaned today February 4, 2025.

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: T. Urban, E. Murphy, P. Bliet (Matrix) Weather/Temperature: cloudy, calm, 25°F
Date: 02/12/2025 Arrival Time: 07:45 Departure Time: 09:45

Reason for Service: Inspect system, Troubleshoot system

| <u>Inspection Items:</u> | <u>OK:</u> | <u>Comments:</u> |
|---------------------------------|-------------------|--|
| Site Appearance/Condition | <u>X</u> | <u>See Notes/Explanations section.</u> |
| <i>Building Exterior</i> | | |
| Overhead Door | <u>X</u> | <u></u> |
| Siding | <u>X</u> | <u></u> |
| Roof and Discharge Pipe | <u>X</u> | <u></u> |
| <i>Building Interior</i> | | |
| Indication of Spills or Leaks | <u>X</u> | <u></u> |
| Building Heater | <u>X</u> | <u>Turned On</u> |
| Phone System | <u>X</u> | <u>Disconnected</u> |
| Exhaust Fan | <u></u> | <u>Could not get fan to work.</u> |
| Fire Extinguisher | <u>X</u> | <u></u> |
| First Aid & Eye Wash | <u>X</u> | <u></u> |

Groundwater Treatment System

| | | |
|---------------------|-----------|--|
| Air Stripper | X | |
| Iron Removal Filter | NA | As of June 2021, there is no longer an iron removal filter tank. |
| Flow Meters | X | See Notes/Explanations section. |
| Gauges | X | |
| Stripper Blower | X | |
| Indication of Alarm | X | |

Groundwater Treatment Wells

| | | |
|------------------|----------|---|
| EW-1 Pump | X | |
| EW-1 Transducer | X | |
| EW-1 Flow Meter | | EW-1 flow meter/totalizer screen no longer functioning. |
| EW-2 Pump | X | |
| EW-2 Transducer | X | |
| EW- 2 Flow Meter | X | EW-2 flow meter/totalizer screen no longer functioning. Frozen on 28,543,853 gallons. |
| EW-3 Pump | X | |
| EW-3 Transducer | X | |
| EW-3 Flow Meter | | EW-3 flow meter/totalizer screen no longer functioning. |

Effluent Discharge

| | | |
|----------|----------|---------|
| Outfall | X | Flowing |
| Cleanout | X | |

Instrumentation/Readings:

EW-1

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>1.5</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>249</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

EW-2

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.0</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>“***”</u> Inches |
| Flow Meter Reading | <u>28,543,853</u> Gallons (frozen) |

EW-3

| | |
|------------------------------|------------------------------------|
| Pumping Rate | <u>0.0</u> GPM (see Notes section) |
| Water Level Above Transducer | <u>156</u> Inches |
| Flow Meter Reading | <u>Not Working</u> Gallons |

Air Stripper

| | |
|-------------------------------------|--------------------------|
| Stripper Blower Pressure (Panel) | <u>Broken</u> Inches H2O |
| Stripper Blower Pressure (Stripper) | <u>Broken</u> Inches H2O |

Effluent Flow

| | |
|----------------------------|---------------------------|
| Total System Meter Reading | <u>78,031,665</u> Gallons |
|----------------------------|---------------------------|

Influent/Effluent Sampling

No Sampling was performed.

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival.

System alarm: “WELL #1 HIGH LEVEL” (4/20/99 at 4:08:48 AM) on the control panel display.

Total system flow was timed at 1.5 gpm on the system totalizer flow meter.

Matrix adjusts the settings for the Sensaphone via smartphone app. Matrix troubleshoots EW-2 and believes the transducer is faulty and removes the transducer. EW-2 is left “OFF”. Matrix looks at EW-1 and EW-3 well head control panels and finds nothing faulty.

The most recent round of water levels was collected September 25, 2024.

The bi-monthly influent/effluent samples were collected on January 8, 2025.

The air stripper trays were last mechanically cleaned on February 4, 2025.

ANALYTICAL REPORT

PREPARED FOR

Attn: Ryan Donovan
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Generated 10/1/2024 2:36:08 PM

JOB DESCRIPTION

ChemTrol Site - Monthly
ChemTrol Monthly Groundwater

JOB NUMBER

480-223658-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Qualifiers

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Waste Management
Project: ChemTrol Site - Monthly

Job ID: 480-223658-1

Job ID: 480-223658-1

Eurofins Buffalo

Job Narrative 480-223658-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/24/2024 12:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

GC/MS VOA

Method 624.1_PREC: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-223658-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Effluent (480-223658-1) and Influent (480-223658-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Client Sample ID: Effluent

Lab Sample ID: 480-223658-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------|--------|-----------|-------|-----|-----------|---------|---|---------------|-------------|
| Iron | 218 | | 50.0 | | ug/L | 1 | | 200.7 Rev 4.4 | Total |
| | | | | | | | | | Recoverable |
| pH | 7.7 | HF | 0.1 | | SU | 1 | | SM 4500 H+ B | Total/NA |
| Temperature | 16.1 | HF | 0.001 | | Degrees C | 1 | | SM 4500 H+ B | Total/NA |

Client Sample ID: Influent

Lab Sample ID: 480-223658-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------|--------|-----------|-------|-----|-----------|---------|---|---------------|-------------|
| 1,1-Dichloroethane | 23 | | 12 | | ug/L | 20 | | 624.1 | Total/NA |
| Chloroethane | 26 | | 17 | | ug/L | 20 | | 624.1 | Total/NA |
| o-Chlorotoluene | 640 | | 6.6 | | ug/L | 20 | | 624.1 | Total/NA |
| Iron | 1270 | | 50.0 | | ug/L | 1 | | 200.7 Rev 4.4 | Total |
| | | | | | | | | | Recoverable |
| pH | 6.7 | HF | 0.1 | | SU | 1 | | SM 4500 H+ B | Total/NA |
| Temperature | 16.0 | HF | 0.001 | | Degrees C | 1 | | SM 4500 H+ B | Total/NA |

Client Sample ID: Trip Blank

Lab Sample ID: 480-223658-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Client Sample ID: Effluent

Lab Sample ID: 480-223658-1

Date Collected: 09/24/24 08:30

Matrix: Water

Date Received: 09/24/24 12:54

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/24/24 22:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 68 - 130 | | 09/24/24 22:26 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 75 - 123 | | 09/24/24 22:26 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 76 - 123 | | 09/24/24 22:26 | 1 |
| Toluene-d8 (Surr) | 107 | | 77 - 120 | | 09/24/24 22:26 | 1 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 218 | | 50.0 | | ug/L | | 09/25/24 08:15 | 09/26/24 12:34 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-------|----|-----------|---|----------|----------------|---------|
| Total Suspended Solids (SM 2540D) | ND | | 4.0 | | mg/L | | | 09/26/24 10:19 | 1 |
| pH (SM 4500 H+ B) | 7.7 | HF | 0.1 | | SU | | | 09/26/24 13:37 | 1 |
| Temperature (SM 4500 H+ B) | 16.1 | HF | 0.001 | | Degrees C | | | 09/26/24 13:37 | 1 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Client Sample ID: Influent

Lab Sample ID: 480-223658-2

Date Collected: 09/24/24 08:45

Matrix: Water

Date Received: 09/24/24 12:54

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 7.7 | | ug/L | | | 09/26/24 21:10 | 20 |
| 1,1-Dichloroethane | 23 | | 12 | | ug/L | | | 09/26/24 21:10 | 20 |
| 1,1-Dichloroethene | ND | | 17 | | ug/L | | | 09/26/24 21:10 | 20 |
| Benzene | ND | | 12 | | ug/L | | | 09/26/24 21:10 | 20 |
| Chlorobenzene | ND | | 9.5 | | ug/L | | | 09/26/24 21:10 | 20 |
| Chloroethane | 26 | | 17 | | ug/L | | | 09/26/24 21:10 | 20 |
| cis-1,2-Dichloroethene | ND | | 11 | | ug/L | | | 09/26/24 21:10 | 20 |
| Toluene | ND | | 9.1 | | ug/L | | | 09/26/24 21:10 | 20 |
| Trichloroethene | ND | | 12 | | ug/L | | | 09/26/24 21:10 | 20 |
| o-Chlorotoluene | 640 | | 6.6 | | ug/L | | | 09/26/24 21:10 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 68 - 130 | | 09/26/24 21:10 | 20 |
| Dibromofluoromethane (Surr) | 102 | | 75 - 123 | | 09/26/24 21:10 | 20 |
| 4-Bromofluorobenzene (Surr) | 97 | | 76 - 123 | | 09/26/24 21:10 | 20 |
| Toluene-d8 (Surr) | 104 | | 77 - 120 | | 09/26/24 21:10 | 20 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1270 | | 50.0 | | ug/L | | 09/25/24 08:15 | 09/26/24 12:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-------------|-----------|-------|----|-----------|---|----------|----------------|---------|
| Total Suspended Solids (SM 2540D) | ND | | 4.0 | | mg/L | | | 09/26/24 10:19 | 1 |
| pH (SM 4500 H+ B) | 6.7 | HF | 0.1 | | SU | | | 09/26/24 13:40 | 1 |
| Temperature (SM 4500 H+ B) | 16.0 | HF | 0.001 | | Degrees C | | | 09/26/24 13:40 | 1 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-223658-3

Date Collected: 09/24/24 00:00

Matrix: Water

Date Received: 09/24/24 12:54

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/24/24 23:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 68 - 130 | | 09/24/24 23:15 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 75 - 123 | | 09/24/24 23:15 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 76 - 123 | | 09/24/24 23:15 | 1 |
| Toluene-d8 (Surr) | 106 | | 77 - 120 | | 09/24/24 23:15 | 1 |

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-726076/8

Matrix: Water

Analysis Batch: 726076

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/24/24 20:26 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 68 - 130 | | 09/24/24 20:26 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 75 - 123 | | 09/24/24 20:26 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 76 - 123 | | 09/24/24 20:26 | 1 |
| Toluene-d8 (Surr) | 106 | | 77 - 120 | | 09/24/24 20:26 | 1 |

Lab Sample ID: LCS 480-726076/6

Matrix: Water

Analysis Batch: 726076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1,1-Trichloroethane | 20.0 | 23.1 | | ug/L | | 116 | 52 - 162 |
| 1,1-Dichloroethane | 20.0 | 21.4 | | ug/L | | 107 | 59 - 155 |
| 1,1-Dichloroethene | 20.0 | 22.8 | | ug/L | | 114 | 1 - 234 |
| Benzene | 20.0 | 20.5 | | ug/L | | 102 | 37 - 151 |
| Chlorobenzene | 20.0 | 20.6 | | ug/L | | 103 | 37 - 160 |
| Chloroethane | 20.0 | 20.7 | | ug/L | | 103 | 14 - 230 |
| Toluene | 20.0 | 21.4 | | ug/L | | 107 | 47 - 150 |
| Trichloroethene | 20.0 | 21.1 | | ug/L | | 106 | 71 - 157 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 68 - 130 |
| Dibromofluoromethane (Surr) | 105 | | 75 - 123 |
| 4-Bromofluorobenzene (Surr) | 99 | | 76 - 123 |
| Toluene-d8 (Surr) | 106 | | 77 - 120 |

Lab Sample ID: MB 480-726353/8

Matrix: Water

Analysis Batch: 726353

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |

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QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-726353/8

Matrix: Water

Analysis Batch: 726353

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/26/24 20:22 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 68 - 130 | | 09/26/24 20:22 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 | | 09/26/24 20:22 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 76 - 123 | | 09/26/24 20:22 | 1 |
| Toluene-d8 (Surr) | 104 | | 77 - 120 | | 09/26/24 20:22 | 1 |

Lab Sample ID: LCS 480-726353/26

Matrix: Water

Analysis Batch: 726353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------|----------------|---------------|------------------|------|---|------|----------------|
| 1,1,1-Trichloroethane | 20.0 | 20.7 | | ug/L | | 103 | 52 - 162 |
| 1,1-Dichloroethane | 20.0 | 19.7 | | ug/L | | 99 | 59 - 155 |
| 1,1-Dichloroethene | 20.0 | 20.6 | | ug/L | | 103 | 1 - 234 |
| Benzene | 20.0 | 19.3 | | ug/L | | 96 | 37 - 151 |
| Chlorobenzene | 20.0 | 19.3 | | ug/L | | 97 | 37 - 160 |
| Chloroethane | 20.0 | 21.3 | | ug/L | | 107 | 14 - 230 |
| Toluene | 20.0 | 20.1 | | ug/L | | 100 | 47 - 150 |
| Trichloroethene | 20.0 | 19.6 | | ug/L | | 98 | 71 - 157 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|------------------|------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 68 - 130 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 |
| 4-Bromofluorobenzene (Surr) | 99 | | 76 - 123 |
| Toluene-d8 (Surr) | 105 | | 77 - 120 |

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-726052/1-A

Matrix: Water

Analysis Batch: 726313

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 726052

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------------|-----------------|------|-----|------|---|----------------|----------------|---------|
| Iron | ND | | 50.0 | | ug/L | | 09/25/24 08:15 | 09/26/24 11:56 | 1 |

Lab Sample ID: LCS 480-726052/2-A

Matrix: Water

Analysis Batch: 726313

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 726052

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|----------------|---------------|------------------|------|---|------|----------------|
| Iron | 5100 | 5683 | | ug/L | | 111 | 85 - 115 |

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QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-726278/1
Matrix: Water
Analysis Batch: 726278

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------------|-----------------|-----|----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND | | 4.0 | | mg/L | | | 09/26/24 10:19 | 1 |

Lab Sample ID: LCS 480-726278/2
Matrix: Water
Analysis Batch: 726278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|----------------|---------------|------------------|------|---|------|----------------|
| Total Suspended Solids | 247 | 244.8 | | mg/L | | 99 | 88 - 110 |

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-726318/1
Matrix: Water
Analysis Batch: 726318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|----------------|---------------|------------------|------|---|------|----------------|
| pH | 7.00 | 7.0 | | SU | | 100 | 99 - 101 |

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

GC/MS VOA

Analysis Batch: 726076

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-223658-1 | Effluent | Total/NA | Water | 624.1 | |
| 480-223658-3 | Trip Blank | Total/NA | Water | 624.1 | |
| MB 480-726076/8 | Method Blank | Total/NA | Water | 624.1 | |
| LCS 480-726076/6 | Lab Control Sample | Total/NA | Water | 624.1 | |

Analysis Batch: 726353

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-223658-2 | Influent | Total/NA | Water | 624.1 | |
| MB 480-726353/8 | Method Blank | Total/NA | Water | 624.1 | |
| LCS 480-726353/26 | Lab Control Sample | Total/NA | Water | 624.1 | |

Metals

Prep Batch: 726052

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 480-223658-1 | Effluent | Total Recoverable | Water | 200.7 | |
| 480-223658-2 | Influent | Total Recoverable | Water | 200.7 | |
| MB 480-726052/1-A | Method Blank | Total Recoverable | Water | 200.7 | |
| LCS 480-726052/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 | |

Analysis Batch: 726313

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|---------------|------------|
| 480-223658-1 | Effluent | Total Recoverable | Water | 200.7 Rev 4.4 | 726052 |
| 480-223658-2 | Influent | Total Recoverable | Water | 200.7 Rev 4.4 | 726052 |
| MB 480-726052/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 726052 |
| LCS 480-726052/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 726052 |

General Chemistry

Analysis Batch: 726278

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 480-223658-1 | Effluent | Total/NA | Water | SM 2540D | |
| 480-223658-2 | Influent | Total/NA | Water | SM 2540D | |
| MB 480-726278/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 480-726278/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |

Analysis Batch: 726318

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------------|------------|
| 480-223658-1 | Effluent | Total/NA | Water | SM 4500 H+ B | |
| 480-223658-2 | Influent | Total/NA | Water | SM 4500 H+ B | |
| LCS 480-726318/1 | Lab Control Sample | Total/NA | Water | SM 4500 H+ B | |

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Client Sample ID: Effluent

Date Collected: 09/24/24 08:30

Date Received: 09/24/24 12:54

Lab Sample ID: 480-223658-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 624.1 | | 1 | 726076 | AXK | EET BUF | 09/24/24 22:26 |
| Total Recoverable | Prep | 200.7 | | | 726052 | EMO | EET BUF | 09/25/24 08:15 |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 726313 | BMB | EET BUF | 09/26/24 12:34 |
| Total/NA | Analysis | SM 2540D | | 1 | 726278 | AB | EET BUF | 09/26/24 10:19 |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 726318 | KB | EET BUF | 09/26/24 13:37 |

Client Sample ID: Influent

Date Collected: 09/24/24 08:45

Date Received: 09/24/24 12:54

Lab Sample ID: 480-223658-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 624.1 | | 20 | 726353 | AXK | EET BUF | 09/26/24 21:10 |
| Total Recoverable | Prep | 200.7 | | | 726052 | EMO | EET BUF | 09/25/24 08:15 |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 726313 | BMB | EET BUF | 09/26/24 12:41 |
| Total/NA | Analysis | SM 2540D | | 1 | 726278 | AB | EET BUF | 09/26/24 10:19 |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 726318 | KB | EET BUF | 09/26/24 13:40 |

Client Sample ID: Trip Blank

Date Collected: 09/24/24 00:00

Date Received: 09/24/24 12:54

Lab Sample ID: 480-223658-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 624.1 | | 1 | 726076 | AXK | EET BUF | 09/24/24 23:15 |

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|-----------------|
| New York | NELAP | 10026 | 03-31-25 |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 624.1 | | Water | o-Chlorotoluene |
| SM 4500 H+ B | | Water | pH |
| SM 4500 H+ B | | Water | Temperature |

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

| Method | Method Description | Protocol | Laboratory |
|---------------|---------------------------------------|----------|------------|
| 624.1 | Volatile Organic Compounds (GC/MS) | EPA | EET BUF |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | EET BUF |
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET BUF |
| SM 4500 H+ B | pH | SM | EET BUF |
| 200.7 | Preparation, Total Recoverable Metals | EPA | EET BUF |

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-223658-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-223658-1 | Effluent | Water | 09/24/24 08:30 | 09/24/24 12:54 |
| 480-223658-2 | Influent | Water | 09/24/24 08:45 | 09/24/24 12:54 |
| 480-223658-3 | Trip Blank | Water | 09/24/24 00:00 | 09/24/24 12:54 |

| |
|----|
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |

ANALYTICAL REPORT

PREPARED FOR

Attn: Ryan Donovan
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Generated 11/18/2024 3:36:31 PM

JOB DESCRIPTION

ChemTrol Site - Monthly Groundwater
ChemTrol Monthly Groundwater

JOB NUMBER

480-225375-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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11/18/2024 3:36:31 PM

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Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

Qualifiers

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Waste Management
Project: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

Job ID: 480-225375-1

Eurofins Buffalo

Job Narrative 480-225375-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/12/2024 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

Receipt Exceptions

The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: Lab did not receive trip blank.

GC/MS VOA

Method 624.1_PREC: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-225375-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Effluent (480-225375-1) and Influent (480-225375-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Buffalo

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

Client Sample ID: Effluent

Lab Sample ID: 480-225375-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|-----|-----------|---------|---|---------------|-------------|
| Iron | 1050 | | 50.0 | | ug/L | 1 | | 200.7 Rev 4.4 | Total |
| | | | | | | | | | Recoverable |
| Total Suspended Solids | 18.8 | | 4.0 | | mg/L | 1 | | SM 2540D | Total/NA |
| pH | 7.8 | HF | 0.1 | | SU | 1 | | SM 4500 H+ B | Total/NA |
| Temperature | 18.2 | HF | 0.001 | | Degrees C | 1 | | SM 4500 H+ B | Total/NA |

Client Sample ID: Influent

Lab Sample ID: 480-225375-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------|--------|-----------|-------|-----|-----------|---------|---|---------------|-------------|
| 1,1-Dichloroethane | 19 | | 12 | | ug/L | 20 | | 624.1 | Total/NA |
| o-Chlorotoluene | 1100 | | 6.6 | | ug/L | 20 | | 624.1 | Total/NA |
| Iron | 1150 | | 50.0 | | ug/L | 1 | | 200.7 Rev 4.4 | Total |
| | | | | | | | | | Recoverable |
| pH | 7.0 | HF | 0.1 | | SU | 1 | | SM 4500 H+ B | Total/NA |
| Temperature | 19.1 | HF | 0.001 | | Degrees C | 1 | | SM 4500 H+ B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

Client Sample ID: Effluent

Lab Sample ID: 480-225375-1

Date Collected: 11/12/24 09:30

Matrix: Water

Date Received: 11/12/24 10:45

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 11/13/24 16:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 68 - 130 | | 11/13/24 16:29 | 1 |
| Dibromofluoromethane (Surr) | 105 | | 75 - 123 | | 11/13/24 16:29 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 76 - 123 | | 11/13/24 16:29 | 1 |
| Toluene-d8 (Surr) | 99 | | 77 - 120 | | 11/13/24 16:29 | 1 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1050 | | 50.0 | | ug/L | | 11/14/24 09:04 | 11/14/24 16:24 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-------|----|-----------|---|----------|----------------|---------|
| Total Suspended Solids (SM 2540D) | 18.8 | | 4.0 | | mg/L | | | 11/14/24 16:22 | 1 |
| pH (SM 4500 H+ B) | 7.8 | HF | 0.1 | | SU | | | 11/18/24 11:02 | 1 |
| Temperature (SM 4500 H+ B) | 18.2 | HF | 0.001 | | Degrees C | | | 11/18/24 11:02 | 1 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

Client Sample ID: Influent

Date Collected: 11/12/24 09:45

Date Received: 11/12/24 10:45

Lab Sample ID: 480-225375-2

Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 7.7 | | ug/L | | | 11/13/24 16:54 | 20 |
| 1,1-Dichloroethane | 19 | | 12 | | ug/L | | | 11/13/24 16:54 | 20 |
| 1,1-Dichloroethene | ND | | 17 | | ug/L | | | 11/13/24 16:54 | 20 |
| Benzene | ND | | 12 | | ug/L | | | 11/13/24 16:54 | 20 |
| Chlorobenzene | ND | | 9.5 | | ug/L | | | 11/13/24 16:54 | 20 |
| Chloroethane | ND | | 17 | | ug/L | | | 11/13/24 16:54 | 20 |
| cis-1,2-Dichloroethene | ND | | 11 | | ug/L | | | 11/13/24 16:54 | 20 |
| Toluene | ND | | 9.1 | | ug/L | | | 11/13/24 16:54 | 20 |
| Trichloroethene | ND | | 12 | | ug/L | | | 11/13/24 16:54 | 20 |
| o-Chlorotoluene | 1100 | | 6.6 | | ug/L | | | 11/13/24 16:54 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 68 - 130 | | 11/13/24 16:54 | 20 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 | | 11/13/24 16:54 | 20 |
| 4-Bromofluorobenzene (Surr) | 99 | | 76 - 123 | | 11/13/24 16:54 | 20 |
| Toluene-d8 (Surr) | 98 | | 77 - 120 | | 11/13/24 16:54 | 20 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1150 | | 50.0 | | ug/L | | 11/14/24 09:04 | 11/14/24 16:33 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-------------|-----------|-------|----|-----------|---|----------|----------------|---------|
| Total Suspended Solids (SM 2540D) | ND | | 4.0 | | mg/L | | | 11/14/24 16:22 | 1 |
| pH (SM 4500 H+ B) | 7.0 | HF | 0.1 | | SU | | | 11/18/24 11:08 | 1 |
| Temperature (SM 4500 H+ B) | 19.1 | HF | 0.001 | | Degrees C | | | 11/18/24 11:08 | 1 |

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-732253/8

Matrix: Water

Analysis Batch: 732253

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 11/13/24 12:53 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 68 - 130 | | 11/13/24 12:53 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 123 | | 11/13/24 12:53 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 76 - 123 | | 11/13/24 12:53 | 1 |
| Toluene-d8 (Surr) | 99 | | 77 - 120 | | 11/13/24 12:53 | 1 |

Lab Sample ID: LCS 480-732253/6

Matrix: Water

Analysis Batch: 732253

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1,1-Trichloroethane | 20.0 | 22.1 | | ug/L | | 111 | 52 - 162 |
| 1,1-Dichloroethane | 20.0 | 17.8 | | ug/L | | 89 | 59 - 155 |
| 1,1-Dichloroethene | 20.0 | 18.6 | | ug/L | | 93 | 1 - 234 |
| Benzene | 20.0 | 19.1 | | ug/L | | 95 | 37 - 151 |
| Chlorobenzene | 20.0 | 20.1 | | ug/L | | 100 | 37 - 160 |
| Chloroethane | 20.0 | 16.1 | | ug/L | | 81 | 14 - 230 |
| Toluene | 20.0 | 19.5 | | ug/L | | 98 | 47 - 150 |
| Trichloroethene | 20.0 | 19.8 | | ug/L | | 99 | 71 - 157 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 68 - 130 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 |
| 4-Bromofluorobenzene (Surr) | 100 | | 76 - 123 |
| Toluene-d8 (Surr) | 99 | | 77 - 120 |

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-732306/1-A

Matrix: Water

Analysis Batch: 732509

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 732306

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Iron | ND | | 50.0 | | ug/L | | 11/14/24 09:04 | 11/14/24 16:18 | 1 |

Eurofins Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-732306/2-A
Matrix: Water
Analysis Batch: 732509

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 732306

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Iron | 5100 | 5199 | | ug/L | | 102 | 85 - 115 |

Lab Sample ID: 480-225375-1 MS
Matrix: Water
Analysis Batch: 732509

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 732306

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Iron | 1050 | | 5100 | 6139 | | ug/L | | 100 | 70 - 130 |

Lab Sample ID: 480-225375-1 MSD
Matrix: Water
Analysis Batch: 732509

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 732306

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Iron | 1050 | | 5100 | 6093 | | ug/L | | 99 | 70 - 130 | 1 | 20 |

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-732478/1
Matrix: Water
Analysis Batch: 732478

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND | | 4.0 | | mg/L | | | 11/14/24 16:22 | 1 |

Lab Sample ID: LCS 480-732478/2
Matrix: Water
Analysis Batch: 732478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Suspended Solids | 246 | 240.8 | | mg/L | | 98 | 88 - 110 |

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-732782/23
Matrix: Water
Analysis Batch: 732782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| pH | 7.00 | 7.0 | | SU | | 100 | 99 - 101 |

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

GC/MS VOA

Analysis Batch: 732253

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-225375-1 | Effluent | Total/NA | Water | 624.1 | |
| 480-225375-2 | Influent | Total/NA | Water | 624.1 | |
| MB 480-732253/8 | Method Blank | Total/NA | Water | 624.1 | |
| LCS 480-732253/6 | Lab Control Sample | Total/NA | Water | 624.1 | |

Metals

Prep Batch: 732306

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 480-225375-1 | Effluent | Total Recoverable | Water | 200.7 | |
| 480-225375-2 | Influent | Total Recoverable | Water | 200.7 | |
| MB 480-732306/1-A | Method Blank | Total Recoverable | Water | 200.7 | |
| LCS 480-732306/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 | |
| 480-225375-1 MS | Effluent | Total Recoverable | Water | 200.7 | |
| 480-225375-1 MSD | Effluent | Total Recoverable | Water | 200.7 | |

Analysis Batch: 732509

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|---------------|------------|
| 480-225375-1 | Effluent | Total Recoverable | Water | 200.7 Rev 4.4 | 732306 |
| 480-225375-2 | Influent | Total Recoverable | Water | 200.7 Rev 4.4 | 732306 |
| MB 480-732306/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 732306 |
| LCS 480-732306/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 732306 |
| 480-225375-1 MS | Effluent | Total Recoverable | Water | 200.7 Rev 4.4 | 732306 |
| 480-225375-1 MSD | Effluent | Total Recoverable | Water | 200.7 Rev 4.4 | 732306 |

General Chemistry

Analysis Batch: 732478

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 480-225375-1 | Effluent | Total/NA | Water | SM 2540D | |
| 480-225375-2 | Influent | Total/NA | Water | SM 2540D | |
| MB 480-732478/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 480-732478/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |

Analysis Batch: 732782

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------------|------------|
| 480-225375-1 | Effluent | Total/NA | Water | SM 4500 H+ B | |
| 480-225375-2 | Influent | Total/NA | Water | SM 4500 H+ B | |
| LCS 480-732782/23 | Lab Control Sample | Total/NA | Water | SM 4500 H+ B | |

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

Client Sample ID: Effluent

Date Collected: 11/12/24 09:30

Date Received: 11/12/24 10:45

Lab Sample ID: 480-225375-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 624.1 | | 1 | 732253 | AXK | EET BUF | 11/13/24 16:29 |
| Total Recoverable | Prep | 200.7 | | | 732306 | ET | EET BUF | 11/14/24 09:04 |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 732509 | BMB | EET BUF | 11/14/24 16:24 |
| Total/NA | Analysis | SM 2540D | | 1 | 732478 | KO | EET BUF | 11/14/24 16:22 |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 732782 | KB | EET BUF | 11/18/24 11:02 |

Client Sample ID: Influent

Date Collected: 11/12/24 09:45

Date Received: 11/12/24 10:45

Lab Sample ID: 480-225375-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 624.1 | | 20 | 732253 | AXK | EET BUF | 11/13/24 16:54 |
| Total Recoverable | Prep | 200.7 | | | 732306 | ET | EET BUF | 11/14/24 09:04 |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 732509 | BMB | EET BUF | 11/14/24 16:33 |
| Total/NA | Analysis | SM 2540D | | 1 | 732478 | KO | EET BUF | 11/14/24 16:22 |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 732782 | KB | EET BUF | 11/18/24 11:08 |

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|-----------------|
| New York | NELAP | 10026 | 03-31-25 |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 624.1 | | Water | o-Chlorotoluene |
| SM 4500 H+ B | | Water | pH |
| SM 4500 H+ B | | Water | Temperature |

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

| Method | Method Description | Protocol | Laboratory |
|---------------|---------------------------------------|----------|------------|
| 624.1 | Volatile Organic Compounds (GC/MS) | EPA | EET BUF |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | EET BUF |
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET BUF |
| SM 4500 H+ B | pH | SM | EET BUF |
| 200.7 | Preparation, Total Recoverable Metals | EPA | EET BUF |

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly Groundwater

Job ID: 480-225375-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-225375-1 | Effluent | Water | 11/12/24 09:30 | 11/12/24 10:45 |
| 480-225375-2 | Influent | Water | 11/12/24 09:45 | 11/12/24 10:45 |

| |
|----|
| 1 |
| 2 |
| 3 |
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| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L2500908 |
| Client: | Waste Management - Chem Trol 600 New Ludlow Rd South Hadley, MA 01075 |
| ATTN: | Ryan Donovan |
| Phone: | (413) 275-1522 |
| Project Name: | CHEMTROL MONTHLY GROUNDWATER |
| Project Number: | WM CHEMTROL MONTH GW |
| Report Date: | 01/23/25 |

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH GW

Lab Number: L2500908
Report Date: 01/23/25

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|------------------|------------|--------|---------------------|-------------------------|--------------|
| L2500908-01 | EFFLUENT | WATER | TOWN OF HAMBURG, NY | 01/08/25 09:50 | 01/08/25 |
| L2500908-02 | INFLUENT | WATER | TOWN OF HAMBURG, NY | 01/08/25 10:10 | 01/08/25 |
| L2500908-03 | TRIP BLANK | WATER | TOWN OF HAMBURG, NY | 01/08/25 00:00 | 01/08/25 |

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH GW

Lab Number: L2500908
Report Date: 01/23/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH GW

Lab Number: L2500908
Report Date: 01/23/25

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Solids, Total Suspended

The Effluent (L2500908-02) result is greater than the Influent (L2500908-01) result.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Melissa Sturgis

Title: Technical Director/Representative

Date: 01/23/25

ORGANICS

VOLATILES

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH

Lab Number: L2500908
Report Date: 01/23/25

SAMPLE RESULTS

Lab ID: L2500908-01
Client ID: EFFLUENT
Sample Location: TOWN OF HAMBURG, NY

Date Collected: 01/08/25 09:50
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 01/11/25 15:52
Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,1-Dichloroethane | 1.6 | | ug/l | 5.0 | 0.40 | 1 |
| Chlorobenzene | ND | | ug/l | 5.0 | 0.30 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 5.0 | 0.29 | 1 |
| Benzene | ND | | ug/l | 5.0 | 0.38 | 1 |
| Toluene | ND | | ug/l | 5.0 | 0.31 | 1 |
| Chloroethane | ND | | ug/l | 5.0 | 0.37 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 0.31 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 5.0 | 0.17 | 1 |
| Trichloroethene | ND | | ug/l | 5.0 | 0.33 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| Pentafluorobenzene | 96 | | 60-140 |
| Fluorobenzene | 92 | | 60-140 |
| 4-Bromofluorobenzene | 94 | | 60-140 |

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH

Lab Number: L2500908
Report Date: 01/23/25

SAMPLE RESULTS

Lab ID: L2500908-01
Client ID: EFFLUENT
Sample Location: TOWN OF HAMBURG, NY

Date Collected: 01/08/25 09:50
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 01/11/25 15:52
Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| o-Chlorotoluene | 0.99 | J | ug/l | 5.0 | 0.28 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| Pentafluorobenzene | 92 | | 60-140 |
| Fluorobenzene | 102 | | 60-140 |
| 4-Bromofluorobenzene | 85 | | 60-140 |

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH

Lab Number: L2500908
Report Date: 01/23/25

SAMPLE RESULTS

Lab ID: L2500908-02
Client ID: INFLUENT
Sample Location: TOWN OF HAMBURG, NY

Date Collected: 01/08/25 10:10
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 01/11/25 16:56
Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,1-Dichloroethane | 44 | | ug/l | 5.0 | 0.40 | 1 |
| Chlorobenzene | ND | | ug/l | 5.0 | 0.30 | 1 |
| 1,1,1-Trichloroethane | 4.8 | | ug/l | 5.0 | 0.29 | 1 |
| Benzene | 0.87 | J | ug/l | 5.0 | 0.38 | 1 |
| Toluene | ND | | ug/l | 5.0 | 0.31 | 1 |
| Chloroethane | 27 | | ug/l | 5.0 | 0.37 | 1 |
| 1,1-Dichloroethene | 2.2 | | ug/l | 5.0 | 0.31 | 1 |
| cis-1,2-Dichloroethene | 3.1 | | ug/l | 5.0 | 0.17 | 1 |
| Trichloroethene | 3.1 | | ug/l | 5.0 | 0.33 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| Pentafluorobenzene | 104 | | 60-140 |
| Fluorobenzene | 98 | | 60-140 |
| 4-Bromofluorobenzene | 97 | | 60-140 |

Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH**Report Date:** 01/23/25**SAMPLE RESULTS**

Lab ID: L2500908-02 D
 Client ID: INFLUENT
 Sample Location: TOWN OF HAMBURG, NY

Date Collected: 01/08/25 10:10
 Date Received: 01/08/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 128,624.1

Analytical Date: 01/13/25 13:19

Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

Volatile Organics by GC/MS - Westborough Lab

| | | | | | | |
|-----------------|-----|--|------|----|-----|----|
| o-Chlorotoluene | 440 | | ug/l | 10 | 2.8 | 10 |
|-----------------|-----|--|------|----|-----|----|

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| Pentafluorobenzene | 94 | | 60-140 |
| Fluorobenzene | 99 | | 60-140 |
| 4-Bromofluorobenzene | 92 | | 60-140 |

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH

Lab Number: L2500908
Report Date: 01/23/25

SAMPLE RESULTS

Lab ID: L2500908-03
Client ID: TRIP BLANK
Sample Location: TOWN OF HAMBURG, NY

Date Collected: 01/08/25 00:00
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 01/11/25 16:24
Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,1-Dichloroethane | ND | | ug/l | 5.0 | 0.40 | 1 |
| Chlorobenzene | ND | | ug/l | 5.0 | 0.30 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 5.0 | 0.29 | 1 |
| Benzene | ND | | ug/l | 5.0 | 0.38 | 1 |
| Toluene | ND | | ug/l | 5.0 | 0.31 | 1 |
| Chloroethane | ND | | ug/l | 5.0 | 0.37 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 0.31 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 5.0 | 0.17 | 1 |
| Trichloroethene | ND | | ug/l | 5.0 | 0.33 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| Pentafluorobenzene | 106 | | 60-140 |
| Fluorobenzene | 97 | | 60-140 |
| 4-Bromofluorobenzene | 95 | | 60-140 |

Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH**Report Date:** 01/23/25**SAMPLE RESULTS**

Lab ID: L2500908-03

Date Collected: 01/08/25 00:00

Client ID: TRIP BLANK

Date Received: 01/08/25

Sample Location: TOWN OF HAMBURG, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 128,624.1

Analytical Date: 01/11/25 16:24

Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

Volatile Organics by GC/MS - Westborough Lab

| | | | | | | |
|-----------------|----|--|------|-----|------|---|
| o-Chlorotoluene | ND | | ug/l | 5.0 | 0.28 | 1 |
|-----------------|----|--|------|-----|------|---|

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| Pentafluorobenzene | 96 | | 60-140 |
| Fluorobenzene | 102 | | 60-140 |
| 4-Bromofluorobenzene | 86 | | 60-140 |

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH GW

Lab Number: L2500908
Report Date: 01/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
 Analytical Date: 01/11/25 11:37
 Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG2019176-4 | | | | | |
| 1,1-Dichloroethane | ND | | ug/l | 5.0 | 0.40 |
| Chlorobenzene | ND | | ug/l | 5.0 | 0.30 |
| 1,1,1-Trichloroethane | ND | | ug/l | 5.0 | 0.29 |
| Benzene | ND | | ug/l | 5.0 | 0.38 |
| Toluene | ND | | ug/l | 5.0 | 0.31 |
| Chloroethane | ND | | ug/l | 5.0 | 0.37 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 0.31 |
| cis-1,2-Dichloroethene | ND | | ug/l | 5.0 | 0.17 |
| Trichloroethene | ND | | ug/l | 5.0 | 0.33 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| Pentafluorobenzene | 100 | | 60-140 |
| Fluorobenzene | 96 | | 60-140 |
| 4-Bromofluorobenzene | 92 | | 60-140 |

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH GW

Lab Number: L2500908
Report Date: 01/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
 Analytical Date: 01/13/25 11:11
 Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG2019688-4 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 5.0 | 0.28 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|------------------------|
| Pentafluorobenzene | 90 | | 60-140 |
| Fluorobenzene | 96 | | 60-140 |
| 4-Bromofluorobenzene | 104 | | 60-140 |

Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH GW**Report Date:** 01/23/25**Method Blank Analysis**
Batch Quality Control

Analytical Method: 128,624.1

Analytical Date: 01/11/25 11:37

Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG2019689-4 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 5.0 | 0.28 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| Pentafluorobenzene | 91 | | 60-140 |
| Fluorobenzene | 102 | | 60-140 |
| 4-Bromofluorobenzene | 83 | | 60-140 |

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CHEMTROL MONTHLY GROUNDWATER

Lab Number: L2500908

Project Number: WM CHEMTROL MONTH GW

Report Date: 01/23/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG2019176-3 | | | | | | | | |
| 1,1-Dichloroethane | 110 | | - | | 50-150 | - | | 49 |
| Chlorobenzene | 85 | | - | | 65-135 | - | | 53 |
| 1,1,1-Trichloroethane | 110 | | - | | 70-130 | - | | 36 |
| Benzene | 105 | | - | | 65-135 | - | | 61 |
| Toluene | 95 | | - | | 70-130 | - | | 41 |
| Chloroethane | 130 | | - | | 40-160 | - | | 78 |
| 1,1-Dichloroethene | 110 | | - | | 50-150 | - | | 32 |
| cis-1,2-Dichloroethene | 100 | | - | | 60-140 | - | | 30 |
| Trichloroethene | 105 | | - | | 65-135 | - | | 48 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| Pentafluorobenzene | 103 | | | | 60-140 |
| Fluorobenzene | 102 | | | | 60-140 |
| 4-Bromofluorobenzene | 99 | | | | 60-140 |

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CHEMTROL MONTHLY GROUNDWATER

Lab Number: L2500908

Project Number: WM CHEMTROL MONTH GW

Report Date: 01/23/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG2019688-3 | | | | | | | | |
| o-Chlorotoluene | 110 | | - | | 60-140 | - | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| Pentafluorobenzene | 105 | | | | 60-140 |
| Fluorobenzene | 93 | | | | 60-140 |
| 4-Bromofluorobenzene | 103 | | | | 60-140 |

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CHEMTROL MONTHLY GROUNDWATER

Lab Number: L2500908

Project Number: WM CHEMTROL MONTH GW

Report Date: 01/23/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG2019689-3 | | | | | | | | |
| o-Chlorotoluene | 90 | | - | | 60-140 | - | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| Pentafluorobenzene | 98 | | | | 60-140 |
| Fluorobenzene | 102 | | | | 60-140 |
| 4-Bromofluorobenzene | 91 | | | | 60-140 |

METALS

Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH GW**Report Date:** 01/23/25**SAMPLE RESULTS**

Lab ID: L2500908-01

Date Collected: 01/08/25 09:50

Client ID: EFFLUENT

Date Received: 01/08/25

Sample Location: TOWN OF HAMBURG, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|------|------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab | | | | | | | | | | | |
| Iron, Total Recoverable | 708. | | ug/l | 50.0 | 9.00 | 1 | 01/10/25 02:02 | 01/10/25 17:08 | EPA 3005A | 19,200.7 | EFM |



Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH GW**Report Date:** 01/23/25**SAMPLE RESULTS**

Lab ID: L2500908-02

Date Collected: 01/08/25 10:10

Client ID: INFLUENT

Date Received: 01/08/25

Sample Location: TOWN OF HAMBURG, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|------|------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab | | | | | | | | | | | |
| Iron, Total Recoverable | 2960 | | ug/l | 50.0 | 9.00 | 1 | 01/10/25 02:02 | 01/10/25 17:54 | EPA 3005A | 19,200.7 | EFM |



Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH-**Report Date:** 01/23/25

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|------|------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG2020904-1 | | | | | | | | | | |
| Iron, Total | ND | | ug/l | 50.0 | 9.00 | 1 | 01/10/25 02:02 | 01/10/25 16:50 | 19,200.7 | EFM |

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis
Batch Quality Control

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH GW

Lab Number: L2500908
Report Date: 01/23/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG2020904-2 | | | | | | | | |
| Iron, Total | 97 | | - | | 85-115 | - | | |



Matrix Spike Analysis Batch Quality Control

Project Name: CHEMTROL MONTHLY GROUNDWATER

Lab Number: L2500908

Project Number: WM CHEMTROL MONTH GW

Report Date: 01/23/25

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2020904-3 QC Sample: L2500778-06 Client ID: MS Sample | | | | | | | | | | | | |
| Iron, Total | 6820 | 1000 | 7780 | 96 | | - | - | | 75-125 | - | | 20 |

Lab Duplicate Analysis
Batch Quality Control

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH GW

Lab Number: L2500908
Report Date: 01/23/25

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2020904-4 QC Sample: L2500778-06 Client ID: DUP Sample | | | | | | |
| Iron, Total | 6820 | 7110 | ug/l | 4 | | 20 |



INORGANICS & MISCELLANEOUS

Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH GW**Report Date:** 01/23/25**SAMPLE RESULTS**

Lab ID: L2500908-01

Date Collected: 01/08/25 09:50

Client ID: EFFLUENT

Date Received: 01/08/25

Sample Location: TOWN OF HAMBURG, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-----|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Total Suspended Solids | 10. | | mg/l | 4.0 | NA | 1 | - | 01/11/25 18:27 | 121,2540D | REM |



Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH GW**Report Date:** 01/23/25**SAMPLE RESULTS**

Lab ID: L2500908-02

Date Collected: 01/08/25 10:10

Client ID: INFLUENT

Date Received: 01/08/25

Sample Location: TOWN OF HAMBURG, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-----|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Total Suspended Solids | 5.0 | | mg/l | 4.0 | NA | 1 | - | 01/11/25 18:27 | 121,2540D | REM |



Project Name: CHEMTROL MONTHLY GROUNDWAT**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH GW**Report Date:** 01/23/25**Method Blank Analysis**
Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-----|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG2018892-1 | | | | | | | | | | |
| Solids, Total Suspended | ND | | mg/l | 1.0 | NA | 1 | - | 01/11/25 18:27 | 121,2540D | REM |



Lab Control Sample Analysis **Batch Quality Control**

Project Name: CHEMTROL MONTHLY GROUNDWATER

Lab Number: L2500908

Project Number: WM CHEMTROL MONTH GW

Report Date: 01/23/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2018892-2 | | | | | | | | |
| Solids, Total Suspended | 103 | | - | | 80-120 | - | | |

Lab Duplicate Analysis*Batch Quality Control***Project Name:** CHEMTROL MONTHLY GROUNDWATER**Project Number:** WM CHEMTROL MONTH GW**Lab Number:** L2500908**Report Date:** 01/23/25

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2018892-3 QC Sample: L2501361-01 Client ID: DUP Sample | | | | | | |
| Solids, Total Suspended | 270 | 270 | mg/l | 0 | | 32 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2018892-4 QC Sample: L2501371-01 Client ID: DUP Sample | | | | | | |
| Solids, Total Suspended | 620 | 660 | mg/l | 6 | | 32 |

Field Data Summary

Field Data Summary

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MK

Lab Number: L2500908
Report Date: 01/23/25

| Parameter | Result | Units |
|---|--------|-------|
| Sample: L2500908-01 Client ID: EFFLUENT | | |
| Field, pH | 7.77 | std |
| Field, Temperature | 7.6 | c |
| Sample: L2500908-02 Client ID: INFLUENT | | |
| Field, pH | 7.70 | std |
| Field, Temperature | 7.1 | c |

Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH GW**Report Date:** 01/23/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2500908-01A | Vial Na2S2O3 preserved | A | NA | | 3.4 | Y | Absent | | 624.1(7) |
| L2500908-01B | Vial Na2S2O3 preserved | A | NA | | 3.4 | Y | Absent | | 624.1(7) |
| L2500908-01C | Vial Na2S2O3 preserved | A | NA | | 3.4 | Y | Absent | | 624.1(7) |
| L2500908-01D | Plastic 250ml HNO3 preserved | A | <2 | <2 | 3.4 | Y | Absent | | FE-UI-PPB(180) |
| L2500908-01E | Plastic 950ml unpreserved | A | 7 | 7 | 3.4 | Y | Absent | | TSS-2540-LOW(7) |
| L2500908-02A | Vial Na2S2O3 preserved | A | NA | | 3.4 | Y | Absent | | 624.1(7) |
| L2500908-02B | Vial Na2S2O3 preserved | A | NA | | 3.4 | Y | Absent | | 624.1(7) |
| L2500908-02C | Vial Na2S2O3 preserved | A | NA | | 3.4 | Y | Absent | | 624.1(7) |
| L2500908-02D | Plastic 250ml HNO3 preserved | A | <2 | <2 | 3.4 | Y | Absent | | - |
| L2500908-02E | Plastic 950ml unpreserved | A | 7 | 7 | 3.4 | Y | Absent | | TSS-2540-LOW(7) |
| L2500908-03A | Vial Na2S2O3 preserved | A | NA | | 3.4 | Y | Absent | | 624.1(7) |
| L2500908-03B | Vial Na2S2O3 preserved | A | NA | | 3.4 | Y | Absent | | 624.1(7) |

Project Name: CHEMTROL MONTHLY GROUNDWATER**Lab Number:** L2500908**Project Number:** WM CHEMTROL MONTH C**Report Date:** 01/23/25

GLOSSARY

Acronyms

| | |
|----------|--|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Report Format: DU Report with 'J' Qualifiers

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH C

Lab Number: L2500908
Report Date: 01/23/25

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH C

Lab Number: L2500908
Report Date: 01/23/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: CHEMTROL MONTHLY GROUNDWATER
Project Number: WM CHEMTROL MONTH GW

Lab Number: L2500908
Report Date: 01/23/25

REFERENCES

- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **25**Published Date: **01/08/2025**Page **1** of **1****Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Alpha SOP 23528**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Project Manager.

[illegible]

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate



Laboratory Use Only / Lab I.D.:

Site Name: Chem TrolSample I.D. INF

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D D - Direct I - Indirect V - Visual
 Sampling Equipment: S D - Dipper T - Transfer Vessel S - Sample Bottle O - Other

Sample Type: G Grab / Composite (circle one)

Field Measurements

| Sample Date MM/DD/YYYY | Sample Time 24 Hr. Clock | pH (std. Units) | CONDUCTIVITY (umhos/cm @ 25°C) | Temp °C | TURBIDITY (NTUs) | DO mg/L - ppm | eH/ORP (std. Units) |
|---------------------------|-----------------------------|--------------------|-----------------------------------|------------|---------------------|------------------|------------------------|
| <u>01/08/2025</u> | <u>1010</u> | <u>7.70</u> | <u>—</u> | <u>7</u> | <u>—</u> | <u>—</u> | <u>—</u> |

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: slight-decay Color: clear Other: _____Sheen Present Y or N Foam Present: Y or N Floating Solids: Y or N

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: NW/10mph Precipitation: Y or N

Specific Comments: _____

Date 1/8/25Name Tom UrbanSignature Tom UrbanCompany AECOM

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

Laboratory Use Only / Lab I.D.:
_____Site Name: Chem TrolSample I.D.: EFF**Sampling Method & Equipment**

Purge and Sample Equipment:

Sampling Method: D D - Direct Sampling Equipment: S D - Dipper S - Sample Bottle
 I - Indirect T - Transfer Vessel O - Other
 V - Visual

Sample Type: G Grab / Composite (circle one)**Field Measurements**

| Sample Date MM/DD/YYYY | Sample Time 24 Hr. Clock | pH (std. Units) | CONDUCTIVITY (umhos/cm @ 25°C) | Temp 'C | TURBIDITY (NTUs) | DO mg/L - ppm | eH/ORP (std. Units) |
|---------------------------|-----------------------------|--------------------|--------------------------------------|------------|---------------------|---------------------|------------------------|
| <u>01/08/2025</u> | <u>0950</u> | <u>7.77</u> | <u>—</u> | <u>7.6</u> | <u>—</u> | <u>—</u> | <u>—</u> |

Record final stabilized field readings.

Field ObservationsSample Appearance: Odor: none Color: clear Other: _____Sheen Present Y or N Foam Present: Y or N Floating Solids: Y or N

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: NW/10 mph Precipitation: Y or NSpecific Comments: _____

 _____1/8/25
DateTom Urban
NameTom Urban
SignatureAECOM
Company

ATTACHMENT D

September 2024 Bi-Annual Groundwater Monitoring Analytical Report

ANALYTICAL REPORT

PREPARED FOR

Attn: Ryan Donovan
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

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JOB DESCRIPTION

ChemTrol Site - Groundwater
ChemTrol Annual Groundwater (9-Even yrs)

JOB NUMBER

480-223722-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Waste Management
Project: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Job ID: 480-223722-1

Eurofins Buffalo

Job Narrative 480-223722-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/25/2024 3:22 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

GC/MS VOA

Method 8260C: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): TB-092524 (480-223722-1).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-726431 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TB-092524 (480-223722-1), FD-092524 (480-223722-2), MW-13R (480-223722-3), MW-15R (480-223722-4), MW-3S (480-223722-5), MW-7R (480-223722-6), MW-8R (480-223722-7) and MW-9R (480-223722-8).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-13R (480-223722-3), MW-3S (480-223722-5), MW-8R (480-223722-7) and MW-9R (480-223722-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-15R (480-223722-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: FD-092524 (480-223722-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Buffalo

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: TB-092524

Lab Sample ID: 480-223722-1

No Detections.

Client Sample ID: FD-092524

Lab Sample ID: 480-223722-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| o-Chlorotoluene - DL | 1100 | | 34 | | ug/L | 40 | | 8260C | Total/NA |

Client Sample ID: MW-13R

Lab Sample ID: 480-223722-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| o-Chlorotoluene | 1400 | | 34 | | ug/L | 40 | | 8260C | Total/NA |

Client Sample ID: MW-15R

Lab Sample ID: 480-223722-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Cyclohexane | 31 | | 5.0 | | ug/L | 2 | | 8260C | Total/NA |
| Methylcyclohexane | 8.8 | | 5.0 | | ug/L | 2 | | 8260C | Total/NA |

Client Sample ID: MW-3S

Lab Sample ID: 480-223722-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| o-Chlorotoluene | 77000 | | 860 | | ug/L | 1000 | | 8260C | Total/NA |

Client Sample ID: MW-7R

Lab Sample ID: 480-223722-6

No Detections.

Client Sample ID: MW-8R

Lab Sample ID: 480-223722-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| o-Chlorotoluene | 100 | | 5.0 | | ug/L | 4 | | 8260C | Total/NA |

Client Sample ID: MW-9R

Lab Sample ID: 480-223722-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 160 | | 5.0 | | ug/L | 4 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 71 | | 5.0 | | ug/L | 4 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: TB-092524

Lab Sample ID: 480-223722-1

Date Collected: 09/25/24 00:00

Matrix: Water

Date Received: 09/25/24 15:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 2-Butanone (MEK) | ND | | 25 | | ug/L | | | 09/28/24 05:48 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| 2-Hexanone | ND | | 25 | | ug/L | | | 09/28/24 05:48 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | | ug/L | | | 09/28/24 05:48 | 1 |
| Acetone | ND | | 25 | | ug/L | | | 09/28/24 05:48 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Bromoform | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Bromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Chloroform | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Chloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Cyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Bromodichloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Dichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Methyl acetate | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Methylcyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Styrene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 09/28/24 05:48 | 1 |
| Xylenes, Total | ND | | 15 | | ug/L | | | 09/28/24 05:48 | 1 |

Eurofins Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: TB-092524
Date Collected: 09/25/24 00:00
Date Received: 09/25/24 15:22

Lab Sample ID: 480-223722-1
Matrix: Water

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 77 - 120 | | 09/28/24 05:48 | 1 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | 09/28/24 05:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 73 - 120 | | 09/28/24 05:48 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 75 - 123 | | 09/28/24 05:48 | 1 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: FD-092524

Lab Sample ID: 480-223722-2

Date Collected: 09/25/24 00:00

Matrix: Water

Date Received: 09/25/24 15:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| 2-Butanone (MEK) | ND | | 25 | | ug/L | | | 09/28/24 06:10 | 1 |
| 2-Hexanone | ND | | 25 | | ug/L | | | 09/28/24 06:10 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | | ug/L | | | 09/28/24 06:10 | 1 |
| Acetone | ND | | 25 | | ug/L | | | 09/28/24 06:10 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Bromoform | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Bromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Chloroform | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Chloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Cyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Bromodichloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Dichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Methyl acetate | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Methylcyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Styrene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 09/28/24 06:10 | 1 |
| Xylenes, Total | ND | | 15 | | ug/L | | | 09/28/24 06:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 77 - 120 | | 09/28/24 06:10 | 1 |

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Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: FD-092524

Lab Sample ID: 480-223722-2

Date Collected: 09/25/24 00:00

Matrix: Water

Date Received: 09/25/24 15:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | 09/28/24 06:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 73 - 120 | | 09/28/24 06:10 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 75 - 123 | | 09/28/24 06:10 | 1 |

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| o-Chlorotoluene | 1100 | | 34 | | ug/L | | | 09/30/24 15:01 | 40 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 77 - 120 | | 09/30/24 15:01 | 40 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | 09/30/24 15:01 | 40 |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 | | 09/30/24 15:01 | 40 |
| Dibromofluoromethane (Surr) | 102 | | 75 - 123 | | 09/30/24 15:01 | 40 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-13R

Lab Sample ID: 480-223722-3

Date Collected: 09/25/24 10:20

Matrix: Water

Date Received: 09/25/24 15:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 33 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,1,2,2-Tetrachloroethane | ND | | 8.4 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 12 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,1,2-Trichloroethane | ND | | 9.2 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,1-Dichloroethane | ND | | 15 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,2,4-Trichlorobenzene | ND | | 16 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,2-Dibromo-3-Chloropropane | ND | | 16 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,2-Dibromoethane | ND | | 29 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,2-Dichlorobenzene | ND | | 32 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,2-Dichloroethane | ND | | 8.4 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,2-Dichloropropane | ND | | 29 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,3-Dichlorobenzene | ND | | 31 | | ug/L | | | 09/28/24 06:33 | 40 |
| 1,4-Dichlorobenzene | ND | | 34 | | ug/L | | | 09/28/24 06:33 | 40 |
| 2-Butanone (MEK) | ND | | 53 | | ug/L | | | 09/28/24 06:33 | 40 |
| o-Chlorotoluene | 1400 | | 34 | | ug/L | | | 09/28/24 06:33 | 40 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 09/28/24 06:33 | 40 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 84 | | ug/L | | | 09/28/24 06:33 | 40 |
| Acetone | ND | | 120 | | ug/L | | | 09/28/24 06:33 | 40 |
| Benzene | ND | | 16 | | ug/L | | | 09/28/24 06:33 | 40 |
| Bromoform | ND | | 10 | | ug/L | | | 09/28/24 06:33 | 40 |
| Bromomethane | ND | | 28 | | ug/L | | | 09/28/24 06:33 | 40 |
| Carbon disulfide | ND | | 7.6 | | ug/L | | | 09/28/24 06:33 | 40 |
| Carbon tetrachloride | ND | | 11 | | ug/L | | | 09/28/24 06:33 | 40 |
| Chlorobenzene | ND | | 30 | | ug/L | | | 09/28/24 06:33 | 40 |
| Chlorodibromomethane | ND | | 13 | | ug/L | | | 09/28/24 06:33 | 40 |
| Chloroethane | ND | | 13 | | ug/L | | | 09/28/24 06:33 | 40 |
| Chloroform | ND | | 14 | | ug/L | | | 09/28/24 06:33 | 40 |
| Chloromethane | ND | | 14 | | ug/L | | | 09/28/24 06:33 | 40 |
| cis-1,2-Dichloroethene | ND | | 32 | | ug/L | | | 09/28/24 06:33 | 40 |
| cis-1,3-Dichloropropene | ND | | 14 | | ug/L | | | 09/28/24 06:33 | 40 |
| Cyclohexane | ND | | 7.2 | | ug/L | | | 09/28/24 06:33 | 40 |
| Bromodichloromethane | ND | | 16 | | ug/L | | | 09/28/24 06:33 | 40 |
| Dichlorofluoromethane | ND | | 14 | | ug/L | | | 09/28/24 06:33 | 40 |
| Ethylbenzene | ND | | 30 | | ug/L | | | 09/28/24 06:33 | 40 |
| Isopropylbenzene | ND | | 32 | | ug/L | | | 09/28/24 06:33 | 40 |
| Methyl acetate | ND | | 52 | | ug/L | | | 09/28/24 06:33 | 40 |
| Methyl tert-butyl ether | ND | | 6.4 | | ug/L | | | 09/28/24 06:33 | 40 |
| Methylcyclohexane | ND | | 6.4 | | ug/L | | | 09/28/24 06:33 | 40 |
| Methylene Chloride | ND | | 18 | | ug/L | | | 09/28/24 06:33 | 40 |
| Styrene | ND | | 29 | | ug/L | | | 09/28/24 06:33 | 40 |
| Tetrachloroethene | ND | | 14 | | ug/L | | | 09/28/24 06:33 | 40 |
| Toluene | ND | | 20 | | ug/L | | | 09/28/24 06:33 | 40 |
| trans-1,2-Dichloroethene | ND | | 36 | | ug/L | | | 09/28/24 06:33 | 40 |
| trans-1,3-Dichloropropene | ND | | 15 | | ug/L | | | 09/28/24 06:33 | 40 |
| Trichloroethene | ND | | 18 | | ug/L | | | 09/28/24 06:33 | 40 |
| Trichlorofluoromethane | ND | | 35 | | ug/L | | | 09/28/24 06:33 | 40 |
| Vinyl chloride | ND | | 36 | | ug/L | | | 09/28/24 06:33 | 40 |
| Xylenes, Total | ND | | 26 | | ug/L | | | 09/28/24 06:33 | 40 |

Eurofins Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-13R
Date Collected: 09/25/24 10:20
Date Received: 09/25/24 15:22

Lab Sample ID: 480-223722-3
Matrix: Water

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 77 - 120 | | 09/28/24 06:33 | 40 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | 09/28/24 06:33 | 40 |
| 4-Bromofluorobenzene (Surr) | 92 | | 73 - 120 | | 09/28/24 06:33 | 40 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 | | 09/28/24 06:33 | 40 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-15R

Lab Sample ID: 480-223722-4

Date Collected: 09/25/24 09:25

Matrix: Water

Date Received: 09/25/24 15:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,2-Dibromoethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 2-Butanone (MEK) | ND | | 25 | | ug/L | | | 09/28/24 06:55 | 2 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| 2-Hexanone | ND | | 25 | | ug/L | | | 09/28/24 06:55 | 2 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | | ug/L | | | 09/28/24 06:55 | 2 |
| Acetone | ND | | 25 | | ug/L | | | 09/28/24 06:55 | 2 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Bromoform | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Bromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Chlorodibromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Chloroform | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Chloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Cyclohexane | 31 | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Bromodichloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Dichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Ethylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Isopropylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Methyl acetate | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Methylcyclohexane | 8.8 | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Styrene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Tetrachloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 09/28/24 06:55 | 2 |
| Xylenes, Total | ND | | 15 | | ug/L | | | 09/28/24 06:55 | 2 |

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Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-15R
Date Collected: 09/25/24 09:25
Date Received: 09/25/24 15:22

Lab Sample ID: 480-223722-4
Matrix: Water

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 77 - 120 | | 09/28/24 06:55 | 2 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | 09/28/24 06:55 | 2 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | 09/28/24 06:55 | 2 |
| Dibromofluoromethane (Surr) | 101 | | 75 - 123 | | 09/28/24 06:55 | 2 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-3S

Lab Sample ID: 480-223722-5

Date Collected: 09/25/24 12:15

Matrix: Water

Date Received: 09/25/24 15:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 820 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,1,2,2-Tetrachloroethane | ND | | 210 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 310 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,1,2-Trichloroethane | ND | | 230 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,1-Dichloroethane | ND | | 380 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,2,4-Trichlorobenzene | ND | | 410 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,2-Dibromo-3-Chloropropane | ND | | 390 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,2-Dibromoethane | ND | | 730 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,2-Dichlorobenzene | ND | | 790 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,2-Dichloroethane | ND | | 210 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,2-Dichloropropane | ND | | 720 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,3-Dichlorobenzene | ND | | 780 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 1,4-Dichlorobenzene | ND | | 840 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 2-Butanone (MEK) | ND | | 1300 | | ug/L | | | 09/28/24 07:18 | 1000 |
| o-Chlorotoluene | 77000 | | 860 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 2-Hexanone | ND | | 1200 | | ug/L | | | 09/28/24 07:18 | 1000 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 2100 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Acetone | ND | | 3000 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Benzene | ND | | 410 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Bromoform | ND | | 260 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Bromomethane | ND | | 690 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Carbon disulfide | ND | | 190 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Carbon tetrachloride | ND | | 270 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Chlorobenzene | ND | | 750 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Chlorodibromomethane | ND | | 320 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Chloroethane | ND | | 320 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Chloroform | ND | | 340 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Chloromethane | ND | | 350 | | ug/L | | | 09/28/24 07:18 | 1000 |
| cis-1,2-Dichloroethene | ND | | 810 | | ug/L | | | 09/28/24 07:18 | 1000 |
| cis-1,3-Dichloropropene | ND | | 360 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Cyclohexane | ND | | 180 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Bromodichloromethane | ND | | 390 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Dichlorofluoromethane | ND | | 340 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Ethylbenzene | ND | | 740 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Isopropylbenzene | ND | | 790 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Methyl acetate | ND | | 1300 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Methyl tert-butyl ether | ND | | 160 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Methylcyclohexane | ND | | 160 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Methylene Chloride | ND | | 440 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Styrene | ND | | 730 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Tetrachloroethene | ND | | 360 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Toluene | ND | | 510 | | ug/L | | | 09/28/24 07:18 | 1000 |
| trans-1,2-Dichloroethene | ND | | 900 | | ug/L | | | 09/28/24 07:18 | 1000 |
| trans-1,3-Dichloropropene | ND | | 370 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Trichloroethene | ND | | 460 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Trichlorofluoromethane | ND | | 880 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Vinyl chloride | ND | | 900 | | ug/L | | | 09/28/24 07:18 | 1000 |
| Xylenes, Total | ND | | 660 | | ug/L | | | 09/28/24 07:18 | 1000 |

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Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-3S

Lab Sample ID: 480-223722-5

Date Collected: 09/25/24 12:15

Matrix: Water

Date Received: 09/25/24 15:22

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 77 - 120 | | 09/28/24 07:18 | 1000 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | 09/28/24 07:18 | 1000 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 | | 09/28/24 07:18 | 1000 |
| Dibromofluoromethane (Surr) | 102 | | 75 - 123 | | 09/28/24 07:18 | 1000 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-7R

Lab Sample ID: 480-223722-6

Date Collected: 09/25/24 08:20

Matrix: Water

Date Received: 09/25/24 15:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 2-Butanone (MEK) | ND | | 25 | | ug/L | | | 09/28/24 07:41 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| 2-Hexanone | ND | | 25 | | ug/L | | | 09/28/24 07:41 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | | ug/L | | | 09/28/24 07:41 | 1 |
| Acetone | ND | | 25 | | ug/L | | | 09/28/24 07:41 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Bromoform | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Bromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Chloroform | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Chloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Cyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Bromodichloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Dichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Methyl acetate | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Methylcyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Styrene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 09/28/24 07:41 | 1 |
| Xylenes, Total | ND | | 15 | | ug/L | | | 09/28/24 07:41 | 1 |

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Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-7R

Lab Sample ID: 480-223722-6

Date Collected: 09/25/24 08:20

Matrix: Water

Date Received: 09/25/24 15:22

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 77 - 120 | | 09/28/24 07:41 | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 09/28/24 07:41 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 | | 09/28/24 07:41 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 | | 09/28/24 07:41 | 1 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-8R

Lab Sample ID: 480-223722-7

Date Collected: 09/25/24 11:15

Matrix: Water

Date Received: 09/25/24 15:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,2-Dibromoethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 2-Butanone (MEK) | ND | | 25 | | ug/L | | | 09/28/24 08:03 | 4 |
| o-Chlorotoluene | 100 | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| 2-Hexanone | ND | | 25 | | ug/L | | | 09/28/24 08:03 | 4 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | | ug/L | | | 09/28/24 08:03 | 4 |
| Acetone | ND | | 25 | | ug/L | | | 09/28/24 08:03 | 4 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Bromoform | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Bromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Chlorodibromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Chloroform | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Chloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Cyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Bromodichloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Dichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Ethylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Isopropylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Methyl acetate | ND | | 5.2 | | ug/L | | | 09/28/24 08:03 | 4 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Methylcyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Styrene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Tetrachloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 09/28/24 08:03 | 4 |
| Xylenes, Total | ND | | 15 | | ug/L | | | 09/28/24 08:03 | 4 |

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Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-8R
Date Collected: 09/25/24 11:15
Date Received: 09/25/24 15:22

Lab Sample ID: 480-223722-7
Matrix: Water

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 77 - 120 | | 09/28/24 08:03 | 4 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | 09/28/24 08:03 | 4 |
| 4-Bromofluorobenzene (Surr) | 93 | | 73 - 120 | | 09/28/24 08:03 | 4 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 | | 09/28/24 08:03 | 4 |

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-9R

Lab Sample ID: 480-223722-8

Date Collected: 09/25/24 13:20

Matrix: Water

Date Received: 09/25/24 15:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 160 | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,1-Dichloroethane | 71 | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,2-Dibromoethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 2-Butanone (MEK) | ND | | 25 | | ug/L | | | 09/28/24 08:26 | 4 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| 2-Hexanone | ND | | 25 | | ug/L | | | 09/28/24 08:26 | 4 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | | ug/L | | | 09/28/24 08:26 | 4 |
| Acetone | ND | | 25 | | ug/L | | | 09/28/24 08:26 | 4 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Bromoform | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Bromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Chlorodibromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Chloroform | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Chloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Cyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Bromodichloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Dichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Ethylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Isopropylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Methyl acetate | ND | | 5.2 | | ug/L | | | 09/28/24 08:26 | 4 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Methylcyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Styrene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Tetrachloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 09/28/24 08:26 | 4 |
| Xylenes, Total | ND | | 15 | | ug/L | | | 09/28/24 08:26 | 4 |

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Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-9R

Lab Sample ID: 480-223722-8

Date Collected: 09/25/24 13:20

Matrix: Water

Date Received: 09/25/24 15:22

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 | | 09/28/24 08:26 | 4 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | | 09/28/24 08:26 | 4 |
| 4-Bromofluorobenzene (Surr) | 93 | | 73 - 120 | | 09/28/24 08:26 | 4 |
| Dibromofluoromethane (Surr) | 107 | | 75 - 123 | | 09/28/24 08:26 | 4 |

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-726431/8

Matrix: Water

Analysis Batch: 726431

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 2-Butanone (MEK) | ND | | 25 | | ug/L | | | 09/28/24 00:55 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| 2-Hexanone | ND | | 25 | | ug/L | | | 09/28/24 00:55 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | | ug/L | | | 09/28/24 00:55 | 1 |
| Acetone | ND | | 25 | | ug/L | | | 09/28/24 00:55 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Bromoform | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Bromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Chloroform | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Chloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Cyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Bromodichloromethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Dichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Methyl acetate | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Methylcyclohexane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Styrene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 09/28/24 00:55 | 1 |
| Xylenes, Total | ND | | 15 | | ug/L | | | 09/28/24 00:55 | 1 |

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QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-726431/8

Matrix: Water

Analysis Batch: 726431

Client Sample ID: Method Blank

Prep Type: Total/NA

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 77 - 120 | | 09/28/24 00:55 | 1 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | 09/28/24 00:55 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 73 - 120 | | 09/28/24 00:55 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 75 - 123 | | 09/28/24 00:55 | 1 |

Lab Sample ID: LCS 480-726431/6

Matrix: Water

Analysis Batch: 726431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------------|----------------|---------------|------------------|------|---|------|----------------|
| 1,1,1-Trichloroethane | 25.0 | 25.5 | | ug/L | | 102 | 73 - 126 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 24.4 | | ug/L | | 98 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 28.1 | | ug/L | | 112 | 61 - 148 |
| 1,1,2-Trichloroethane | 25.0 | 26.0 | | ug/L | | 104 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 28.4 | | ug/L | | 114 | 77 - 120 |
| 1,2,4-Trichlorobenzene | 25.0 | 23.8 | | ug/L | | 95 | 79 - 122 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 28.0 | | ug/L | | 112 | 56 - 134 |
| 1,2-Dibromoethane | 25.0 | 24.9 | | ug/L | | 99 | 77 - 120 |
| 1,2-Dichlorobenzene | 25.0 | 24.5 | | ug/L | | 98 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 25.3 | | ug/L | | 101 | 75 - 120 |
| 1,2-Dichloropropane | 25.0 | 28.0 | | ug/L | | 112 | 76 - 120 |
| 1,3-Dichlorobenzene | 25.0 | 25.2 | | ug/L | | 101 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 24.6 | | ug/L | | 98 | 80 - 120 |
| 2-Butanone (MEK) | 125 | 137 | | ug/L | | 109 | 57 - 140 |
| o-Chlorotoluene | 25.0 | 25.8 | | ug/L | | 103 | 76 - 121 |
| 2-Hexanone | 125 | 147 | | ug/L | | 118 | 65 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 144 | | ug/L | | 115 | 71 - 125 |
| Acetone | 125 | 146 | | ug/L | | 117 | 56 - 142 |
| Benzene | 25.0 | 27.2 | | ug/L | | 109 | 71 - 124 |
| Bromoform | 25.0 | 28.6 | | ug/L | | 114 | 61 - 132 |
| Bromomethane | 25.0 | 27.2 | | ug/L | | 109 | 55 - 144 |
| Carbon disulfide | 25.0 | 28.7 | | ug/L | | 115 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 27.9 | | ug/L | | 112 | 72 - 134 |
| Chlorobenzene | 25.0 | 26.5 | | ug/L | | 106 | 80 - 120 |
| Chlorodibromomethane | 25.0 | 27.2 | | ug/L | | 109 | 75 - 125 |
| Chloroethane | 25.0 | 33.1 | | ug/L | | 132 | 69 - 136 |
| Chloroform | 25.0 | 24.5 | | ug/L | | 98 | 73 - 127 |
| Chloromethane | 25.0 | 28.8 | | ug/L | | 115 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 25.5 | | ug/L | | 102 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 24.6 | | ug/L | | 99 | 74 - 124 |
| Cyclohexane | 25.0 | 28.2 | | ug/L | | 113 | 59 - 135 |
| Bromodichloromethane | 25.0 | 26.1 | | ug/L | | 104 | 80 - 122 |
| Dichlorofluoromethane | 25.0 | 30.4 | | ug/L | | 122 | 76 - 127 |
| Ethylbenzene | 25.0 | 28.4 | | ug/L | | 114 | 77 - 123 |
| Isopropylbenzene | 25.0 | 27.0 | | ug/L | | 108 | 77 - 122 |
| Methyl acetate | 50.0 | 59.5 | | ug/L | | 119 | 74 - 133 |
| Methyl tert-butyl ether | 25.0 | 24.4 | | ug/L | | 98 | 77 - 120 |
| Methylcyclohexane | 25.0 | 25.2 | | ug/L | | 101 | 68 - 134 |

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QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-726431/6

Matrix: Water

Analysis Batch: 726431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| Methylene Chloride | 25.0 | 25.1 | | ug/L | | 100 | 75 - 124 |
| Styrene | 25.0 | 26.4 | | ug/L | | 105 | 80 - 120 |
| Tetrachloroethene | 25.0 | 27.8 | | ug/L | | 111 | 74 - 122 |
| Toluene | 25.0 | 28.2 | | ug/L | | 113 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 27.7 | | ug/L | | 111 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 25.1 | | ug/L | | 100 | 80 - 120 |
| Trichloroethene | 25.0 | 27.1 | | ug/L | | 108 | 74 - 123 |
| Trichlorofluoromethane | 25.0 | 31.6 | | ug/L | | 126 | 62 - 150 |
| Vinyl chloride | 25.0 | 30.0 | | ug/L | | 120 | 65 - 133 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 77 - 120 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 96 | | 75 - 123 |

Lab Sample ID: MB 480-726582/9

Matrix: Water

Analysis Batch: 726582

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 2-Butanone (MEK) | ND | | 25 | | ug/L | | | 09/30/24 13:34 | 1 |
| o-Chlorotoluene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| 2-Hexanone | ND | | 25 | | ug/L | | | 09/30/24 13:34 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | | ug/L | | | 09/30/24 13:34 | 1 |
| Acetone | ND | | 25 | | ug/L | | | 09/30/24 13:34 | 1 |
| Benzene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Bromoform | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Bromomethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Chloroform | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |

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QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-726582/9

Matrix: Water

Analysis Batch: 726582

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Chloromethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Cyclohexane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Bromodichloromethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Dichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Methyl acetate | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Methylcyclohexane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Styrene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Toluene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 09/30/24 13:34 | 1 |
| Xylenes, Total | ND | | 15 | | ug/L | | | 09/30/24 13:34 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 77 - 120 | | 09/30/24 13:34 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | 09/30/24 13:34 | 1 |
| 4-Bromofluorobenzene (Surr) | 108 | | 73 - 120 | | 09/30/24 13:34 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 | | 09/30/24 13:34 | 1 |

Lab Sample ID: LCS 480-726582/6

Matrix: Water

Analysis Batch: 726582

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------------|----------------|---------------|------------------|------|---|------|----------------|
| 1,1,1-Trichloroethane | 25.0 | 23.5 | | ug/L | | 94 | 73 - 126 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.8 | | ug/L | | 103 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 26.2 | | ug/L | | 105 | 61 - 148 |
| 1,1,2-Trichloroethane | 25.0 | 26.0 | | ug/L | | 104 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 25.0 | | ug/L | | 100 | 77 - 120 |
| 1,2,4-Trichlorobenzene | 25.0 | 26.5 | | ug/L | | 106 | 79 - 122 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 23.9 | | ug/L | | 96 | 56 - 134 |
| 1,2-Dibromoethane | 25.0 | 26.2 | | ug/L | | 105 | 77 - 120 |
| 1,2-Dichlorobenzene | 25.0 | 25.1 | | ug/L | | 100 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 24.7 | | ug/L | | 99 | 75 - 120 |
| 1,2-Dichloropropane | 25.0 | 25.2 | | ug/L | | 101 | 76 - 120 |
| 1,3-Dichlorobenzene | 25.0 | 24.8 | | ug/L | | 99 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 24.6 | | ug/L | | 98 | 80 - 120 |
| 2-Butanone (MEK) | 125 | 205 | *+ | ug/L | | 164 | 57 - 140 |
| o-Chlorotoluene | 25.0 | 25.4 | | ug/L | | 102 | 76 - 121 |

Eurofins Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-726582/6

Matrix: Water

Analysis Batch: 726582

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 2-Hexanone | 125 | 124 | | ug/L | | 99 | 65 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 122 | | ug/L | | 98 | 71 - 125 |
| Acetone | 125 | 116 | | ug/L | | 92 | 56 - 142 |
| Benzene | 25.0 | 25.0 | | ug/L | | 100 | 71 - 124 |
| Bromoform | 25.0 | 28.8 | | ug/L | | 115 | 61 - 132 |
| Bromomethane | 25.0 | 22.0 | | ug/L | | 88 | 55 - 144 |
| Carbon disulfide | 25.0 | 24.1 | | ug/L | | 97 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 24.8 | | ug/L | | 99 | 72 - 134 |
| Chlorobenzene | 25.0 | 24.9 | | ug/L | | 99 | 80 - 120 |
| Chlorodibromomethane | 25.0 | 27.2 | | ug/L | | 109 | 75 - 125 |
| Chloroethane | 25.0 | 22.5 | | ug/L | | 90 | 69 - 136 |
| Chloroform | 25.0 | 24.5 | | ug/L | | 98 | 73 - 127 |
| Chloromethane | 25.0 | 21.4 | | ug/L | | 86 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 24.9 | | ug/L | | 100 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 25.9 | | ug/L | | 104 | 74 - 124 |
| Cyclohexane | 25.0 | 23.4 | | ug/L | | 94 | 59 - 135 |
| Bromodichloromethane | 25.0 | 25.7 | | ug/L | | 103 | 80 - 122 |
| Dichlorofluoromethane | 25.0 | 24.3 | | ug/L | | 97 | 76 - 127 |
| Ethylbenzene | 25.0 | 25.3 | | ug/L | | 101 | 77 - 123 |
| Isopropylbenzene | 25.0 | 24.4 | | ug/L | | 97 | 77 - 122 |
| Methyl acetate | 50.0 | 47.0 | | ug/L | | 94 | 74 - 133 |
| Methyl tert-butyl ether | 25.0 | 25.0 | | ug/L | | 100 | 77 - 120 |
| Methylcyclohexane | 25.0 | 24.3 | | ug/L | | 97 | 68 - 134 |
| Methylene Chloride | 25.0 | 24.3 | | ug/L | | 97 | 75 - 124 |
| Styrene | 25.0 | 25.3 | | ug/L | | 101 | 80 - 120 |
| Tetrachloroethene | 25.0 | 26.6 | | ug/L | | 107 | 74 - 122 |
| Toluene | 25.0 | 25.2 | | ug/L | | 101 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 24.4 | | ug/L | | 98 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 27.5 | | ug/L | | 110 | 80 - 120 |
| Trichloroethene | 25.0 | 24.8 | | ug/L | | 99 | 74 - 123 |
| Trichlorofluoromethane | 25.0 | 25.8 | | ug/L | | 103 | 62 - 150 |
| Vinyl chloride | 25.0 | 22.8 | | ug/L | | 91 | 65 - 133 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 77 - 120 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 |

Lab Sample ID: LCSD 480-726582/7

Matrix: Water

Analysis Batch: 726582

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,1,1-Trichloroethane | 25.0 | 24.5 | | ug/L | | 98 | 73 - 126 | 4 | 15 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 26.2 | | ug/L | | 105 | 76 - 120 | 1 | 15 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 26.7 | | ug/L | | 107 | 61 - 148 | 2 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 26.4 | | ug/L | | 106 | 76 - 122 | 1 | 15 |

Eurofins Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-726582/7

Matrix: Water

Analysis Batch: 726582

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,1-Dichloroethane | 25.0 | 25.8 | | ug/L | | 103 | 77 - 120 | 3 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 27.1 | | ug/L | | 108 | 79 - 122 | 2 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.2 | | ug/L | | 101 | 56 - 134 | 5 | 15 |
| 1,2-Dibromoethane | 25.0 | 26.4 | | ug/L | | 106 | 77 - 120 | 1 | 15 |
| 1,2-Dichlorobenzene | 25.0 | 25.4 | | ug/L | | 102 | 80 - 124 | 1 | 20 |
| 1,2-Dichloroethane | 25.0 | 25.1 | | ug/L | | 100 | 75 - 120 | 2 | 20 |
| 1,2-Dichloropropane | 25.0 | 25.3 | | ug/L | | 101 | 76 - 120 | 1 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.1 | | ug/L | | 101 | 77 - 120 | 1 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.7 | | ug/L | | 99 | 80 - 120 | 0 | 20 |
| 2-Butanone (MEK) | 125 | 214 | *+ | ug/L | | 171 | 57 - 140 | 4 | 20 |
| o-Chlorotoluene | 25.0 | 25.7 | | ug/L | | 103 | 76 - 121 | 1 | 20 |
| 2-Hexanone | 125 | 129 | | ug/L | | 103 | 65 - 127 | 4 | 15 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 129 | | ug/L | | 103 | 71 - 125 | 5 | 35 |
| Acetone | 125 | 120 | | ug/L | | 96 | 56 - 142 | 4 | 15 |
| Benzene | 25.0 | 25.0 | | ug/L | | 100 | 71 - 124 | 0 | 13 |
| Bromoform | 25.0 | 28.8 | | ug/L | | 115 | 61 - 132 | 0 | 15 |
| Bromomethane | 25.0 | 21.5 | | ug/L | | 86 | 55 - 144 | 2 | 15 |
| Carbon disulfide | 25.0 | 25.3 | | ug/L | | 101 | 59 - 134 | 5 | 15 |
| Carbon tetrachloride | 25.0 | 25.3 | | ug/L | | 101 | 72 - 134 | 2 | 15 |
| Chlorobenzene | 25.0 | 25.2 | | ug/L | | 101 | 80 - 120 | 2 | 25 |
| Chlorodibromomethane | 25.0 | 27.5 | | ug/L | | 110 | 75 - 125 | 1 | 15 |
| Chloroethane | 25.0 | 22.0 | | ug/L | | 88 | 69 - 136 | 2 | 15 |
| Chloroform | 25.0 | 24.4 | | ug/L | | 98 | 73 - 127 | 0 | 20 |
| Chloromethane | 25.0 | 22.2 | | ug/L | | 89 | 68 - 124 | 4 | 15 |
| cis-1,2-Dichloroethene | 25.0 | 25.3 | | ug/L | | 101 | 74 - 124 | 2 | 15 |
| cis-1,3-Dichloropropene | 25.0 | 26.0 | | ug/L | | 104 | 74 - 124 | 0 | 15 |
| Cyclohexane | 25.0 | 23.0 | | ug/L | | 92 | 59 - 135 | 2 | 20 |
| Bromodichloromethane | 25.0 | 26.0 | | ug/L | | 104 | 80 - 122 | 1 | 15 |
| Dichlorofluoromethane | 25.0 | 23.7 | | ug/L | | 95 | 76 - 127 | 3 | 20 |
| Ethylbenzene | 25.0 | 25.7 | | ug/L | | 103 | 77 - 123 | 1 | 15 |
| Isopropylbenzene | 25.0 | 24.8 | | ug/L | | 99 | 77 - 122 | 2 | 20 |
| Methyl acetate | 50.0 | 49.6 | | ug/L | | 99 | 74 - 133 | 5 | 20 |
| Methyl tert-butyl ether | 25.0 | 25.3 | | ug/L | | 101 | 77 - 120 | 1 | 37 |
| Methylcyclohexane | 25.0 | 24.5 | | ug/L | | 98 | 68 - 134 | 1 | 20 |
| Methylene Chloride | 25.0 | 24.4 | | ug/L | | 98 | 75 - 124 | 0 | 15 |
| Styrene | 25.0 | 25.5 | | ug/L | | 102 | 80 - 120 | 1 | 20 |
| Tetrachloroethene | 25.0 | 27.3 | | ug/L | | 109 | 74 - 122 | 3 | 20 |
| Toluene | 25.0 | 25.6 | | ug/L | | 102 | 80 - 122 | 2 | 15 |
| trans-1,2-Dichloroethene | 25.0 | 24.9 | | ug/L | | 99 | 73 - 127 | 2 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 27.8 | | ug/L | | 111 | 80 - 120 | 1 | 15 |
| Trichloroethene | 25.0 | 25.3 | | ug/L | | 101 | 74 - 123 | 2 | 16 |
| Trichlorofluoromethane | 25.0 | 25.6 | | ug/L | | 102 | 62 - 150 | 1 | 20 |
| Vinyl chloride | 25.0 | 23.2 | | ug/L | | 93 | 65 - 133 | 2 | 15 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 77 - 120 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 106 | | 73 - 120 |

Eurofins Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-726582/7

Matrix: Water

Analysis Batch: 726582

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Surrogate | LCSD | LCSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| Dibromofluoromethane (Surr) | 100 | | 75 - 123 |

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

GC/MS VOA

Analysis Batch: 726431

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-223722-1 | TB-092524 | Total/NA | Water | 8260C | |
| 480-223722-2 | FD-092524 | Total/NA | Water | 8260C | |
| 480-223722-3 | MW-13R | Total/NA | Water | 8260C | |
| 480-223722-4 | MW-15R | Total/NA | Water | 8260C | |
| 480-223722-5 | MW-3S | Total/NA | Water | 8260C | |
| 480-223722-6 | MW-7R | Total/NA | Water | 8260C | |
| 480-223722-7 | MW-8R | Total/NA | Water | 8260C | |
| 480-223722-8 | MW-9R | Total/NA | Water | 8260C | |
| MB 480-726431/8 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-726431/6 | Lab Control Sample | Total/NA | Water | 8260C | |

Analysis Batch: 726582

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 480-223722-2 - DL | FD-092524 | Total/NA | Water | 8260C | |
| MB 480-726582/9 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-726582/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| LCSD 480-726582/7 | Lab Control Sample Dup | Total/NA | Water | 8260C | |

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: TB-092524

Lab Sample ID: 480-223722-1

Date Collected: 09/25/24 00:00

Matrix: Water

Date Received: 09/25/24 15:22

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 726431 | LCH | EET BUF | 09/28/24 05:48 |

Client Sample ID: FD-092524

Lab Sample ID: 480-223722-2

Date Collected: 09/25/24 00:00

Matrix: Water

Date Received: 09/25/24 15:22

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 726431 | LCH | EET BUF | 09/28/24 06:10 |
| Total/NA | Analysis | 8260C | DL | 40 | 726582 | ERS | EET BUF | 09/30/24 15:01 |

Client Sample ID: MW-13R

Lab Sample ID: 480-223722-3

Date Collected: 09/25/24 10:20

Matrix: Water

Date Received: 09/25/24 15:22

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 40 | 726431 | LCH | EET BUF | 09/28/24 06:33 |

Client Sample ID: MW-15R

Lab Sample ID: 480-223722-4

Date Collected: 09/25/24 09:25

Matrix: Water

Date Received: 09/25/24 15:22

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 2 | 726431 | LCH | EET BUF | 09/28/24 06:55 |

Client Sample ID: MW-3S

Lab Sample ID: 480-223722-5

Date Collected: 09/25/24 12:15

Matrix: Water

Date Received: 09/25/24 15:22

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1000 | 726431 | LCH | EET BUF | 09/28/24 07:18 |

Client Sample ID: MW-7R

Lab Sample ID: 480-223722-6

Date Collected: 09/25/24 08:20

Matrix: Water

Date Received: 09/25/24 15:22

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 726431 | LCH | EET BUF | 09/28/24 07:41 |

Client Sample ID: MW-8R

Lab Sample ID: 480-223722-7

Date Collected: 09/25/24 11:15

Matrix: Water

Date Received: 09/25/24 15:22

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 4 | 726431 | LCH | EET BUF | 09/28/24 08:03 |

Eurofins Buffalo

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Client Sample ID: MW-9R
Date Collected: 09/25/24 13:20
Date Received: 09/25/24 15:22

Lab Sample ID: 480-223722-8
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 4 | 726431 | LCH | EET BUF | 09/28/24 08:26 |

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York | NELAP | 10026 | 03-31-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|-----------------------|
| 8260C | | Water | Dichlorofluoromethane |

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1

| Method | Method Description | Protocol | Laboratory |
|--------|-------------------------------------|----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | EET BUF |
| 5030C | Purge and Trap | SW846 | EET BUF |

Protocol References:
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Groundwater

Job ID: 480-223722-1


| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-223722-1 | TB-092524 | Water | 09/25/24 00:00 | 09/25/24 15:22 |
| 480-223722-2 | FD-092524 | Water | 09/25/24 00:00 | 09/25/24 15:22 |
| 480-223722-3 | MW-13R | Water | 09/25/24 10:20 | 09/25/24 15:22 |
| 480-223722-4 | MW-15R | Water | 09/25/24 09:25 | 09/25/24 15:22 |
| 480-223722-5 | MW-3S | Water | 09/25/24 12:15 | 09/25/24 15:22 |
| 480-223722-6 | MW-7R | Water | 09/25/24 08:20 | 09/25/24 15:22 |
| 480-223722-7 | MW-8R | Water | 09/25/24 11:15 | 09/25/24 15:22 |
| 480-223722-8 | MW-9R | Water | 09/25/24 13:20 | 09/25/24 15:22 |



Chain of Custody Record



Environment Testing

| | | | | | | | | | |
|---|--|--|--|---|--|---|--|---|--|
| Client Information | | Sampler: <u>John Vibena / Chris Finn</u> | | Lab PM: <u>VanDette, Ryan T</u> | | Carrier Tracking No(s): <u>480-198188-30197.1</u> | | COC No: <u>480-198188-30197.1</u> | |
| Client Contact: <u>Chad Moose</u> | | Phone: <u>716-856-5636</u> | | E-Mail: <u>Ryan.VanDette@et.eurofins.com</u> | | State of Origin: <u>NY</u> | | Page 1 of 1 | |
| Company: <u>Waste Management</u> | | PWSID: <u></u> | | Analysis Requested | | Job # | | Preservation Codes: <u>A - HCL</u> | |
| Address: <u>Tullytown Landfill 444 Oxford Valley Road</u> | | Due Date Requested: | | TAT Requested (days): | | Compliance Project: <u>Δ Yes Δ No</u> | | Barcode:  | |
| City: <u>Morrisville</u> | | PO # | | 13453950 | | WO # | | 480-223722 Chain of Custody | |
| Phone: <u>215-269-2114(Tel) 215-699-8315(Fax)</u> | | Project # | | 48002447 | | SSOW# | | Other: | |
| Email: <u>cmoose@wm.com</u> | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Matrix (W=water, S=solid, O=wastewater, BT=issue, AA=) | |
| Project Name: <u>ChemTrol Site/NY22 Event Desc: ChemTrol Annual Groundwater</u> | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Matrix (W=water, S=solid, O=wastewater, BT=issue, AA=) | |
| Site: <u>New York</u> | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Matrix (W=water, S=solid, O=wastewater, BT=issue, AA=) | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Matrix (W=water, S=solid, O=wastewater, BT=issue, AA=) | |
| Trip Blank <u>TB-092524</u> | | 9/25/24 | | - | | G | | Water | |
| DUP <u>FD-092524</u> | | 9/25/24 | | - | | G | | Water | |
| MW-13R | | 9/25/24 | | 1020 | | G | | Water | |
| MW-15R | | 9/25/24 | | 0925 | | G | | Water | |
| MW-3S | | 9/25/24 | | 1215 | | G | | Water | |
| MW-7R | | 9/25/24 | | 0820 | | G | | Water | |
| MW-8R | | 9/25/24 | | 1115 | | G | | Water | |
| MW-9R | | 9/25/24 | | 1320 | | G | | Water | |
| Possible Hazard Identification | | Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/> | | Deliverable Requested: I, II, III, IV, Other (specify) | | Empty Kit Relinquished by: | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | |
| Relinquished by: <u>Chris Finn</u> | | Date: <u>9/25/24</u> | | Time: <u>1522</u> | | Relinquished by: | | Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <u>Months</u> | |
| Relinquished by: | | Date: | | Time: | | Relinquished by: | | Special Instructions/QC Requirements: | |
| Relinquished by: | | Date: | | Time: | | Relinquished by: | | Method of Shipment: <u>Drop off</u> | |
| Custody Seals Intact: <u>Δ Yes Δ No</u> | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: <u>46 IR#56 ICE</u> | | Received by: | | Company: | |
| Relinquished by: | | Date: | | Time: | | Received by: | | Company: | |
| Relinquished by: | | Date: | | Time: | | Received by: | | Company: | |

ATTACHMENT E

Historical Groundwater Monitoring Data Trend Plots

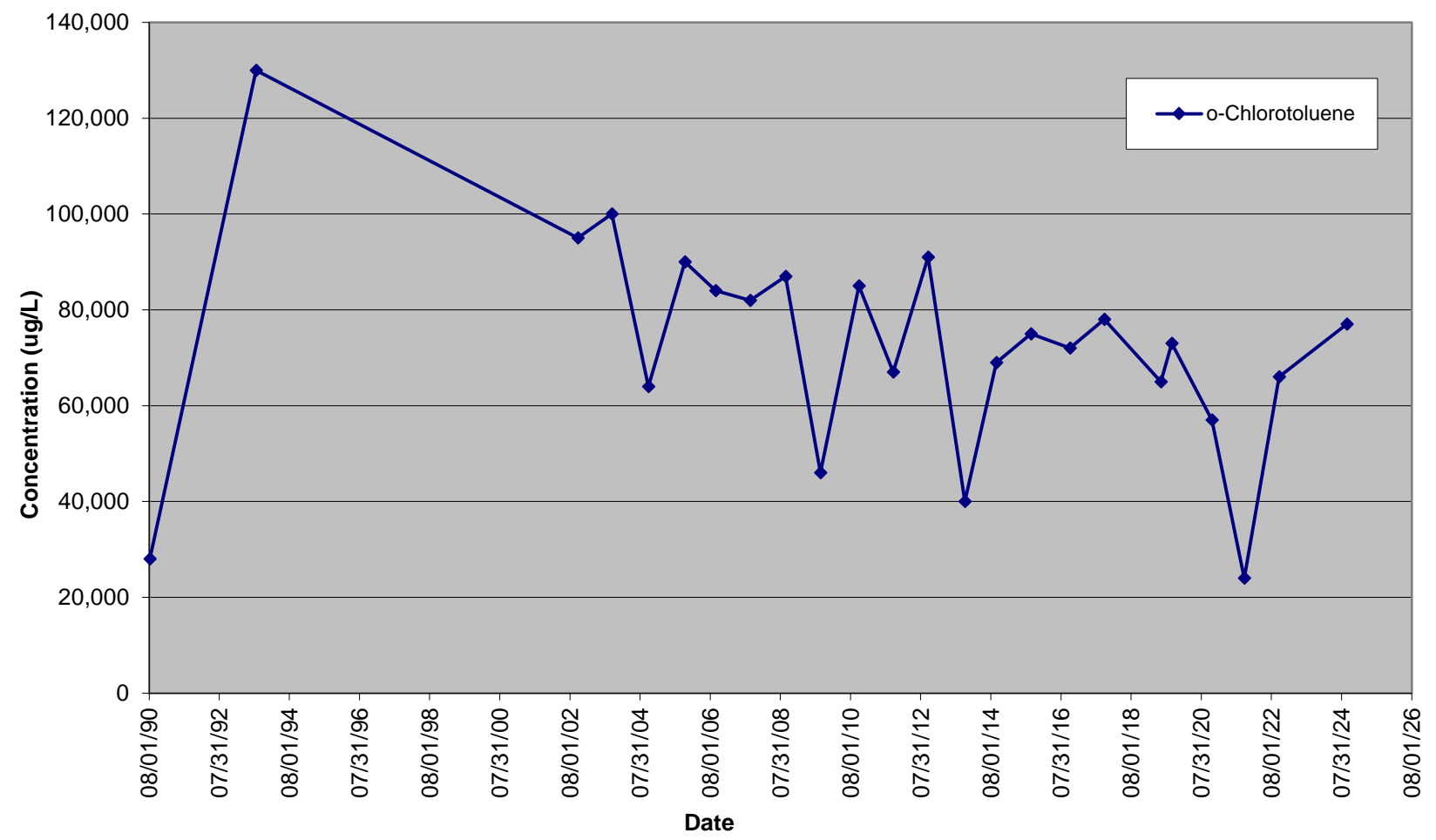
CHEM-TROL SITE

Groundwater Analytical Data for Well MW-3S (ug/L)

| Date | o-Chlorotoluene |
|----------|-----------------|
| 08/09/90 | 28,000 |
| 08/19/93 | 130,000 |
| 10/23/02 | 95,000 |
| 10/13/03 | 100,000 |
| 10/26/04 | 64,000 |
| 11/11/05 | 90,000 |
| 09/27/06 | 84,000 |
| 09/20/07 | 82,000 |
| 09/24/08 | 87,000 |
| 09/22/09 | 46,000 |
| 10/27/10 | 85,000 |
| 10/20/11 | 67,000 |
| 10/17/12 | 91,000 |
| 11/05/13 | 40,000 |
| 09/29/14 | 69,000 |
| 09/23/15 | 75,000 |
| 11/02/16 | 72,000 |
| 10/25/17 | 78,000 |
| 06/07/19 | 65,000 |
| 09/30/19 | 73,000 |
| 11/20/20 | 57,000 |
| 10/22/21 | 24,000 |
| 10/20/22 | 66,000 |
| 09/25/24 | 77,000 |

Note: Data not collected 10/30/18 due to the well being dry; as a result, 2018 annual sample collected 06/07/19.


Monitoring Well MW-3S
Chem-Trol Site, Site No. 915015



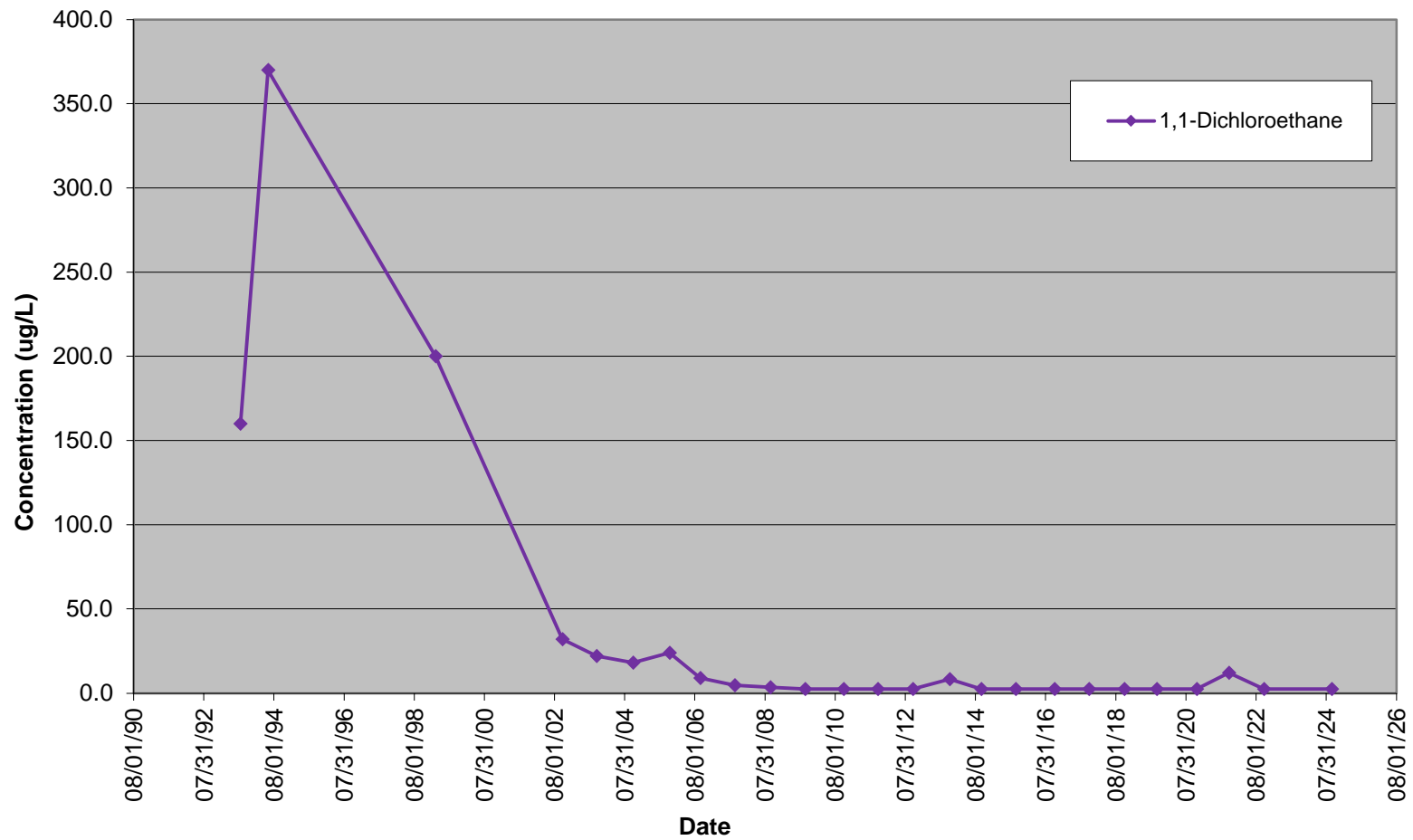
CHEM-TROL SITE

Groundwater Analytical Data for Well MW-8R (ug/L)

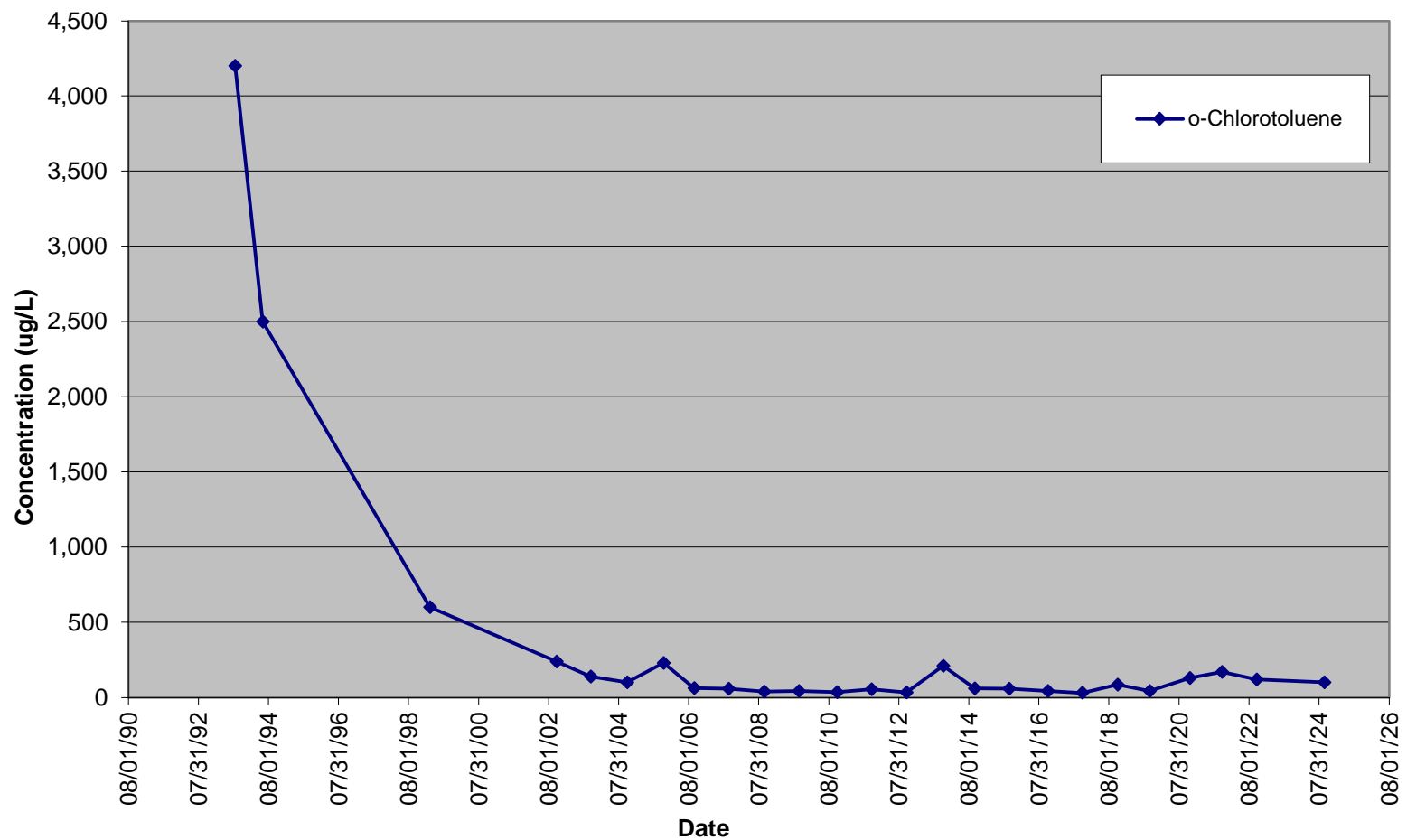
| Date | 1,1-Dichloroethane | o-Chlorotoluene |
|----------|--------------------|-----------------|
| 08/16/93 | 160.0 | 4,200 |
| 06/01/94 | 370.0 | 2,500 |
| 03/10/99 | 200.0 | 600.0 |
| 10/22/02 | 32.0 | 240.0 |
| 10/13/03 | 22.0 | 140.0 |
| 10/26/04 | 18.0 | 100.0 |
| 11/11/05 | 24.0 | 230.0 |
| 09/27/06 | 8.9 | 63.0 |
| 09/20/07 | 4.7 | 58.0 |
| 09/24/08 | 3.4 | 40.0 |
| 09/22/09 | 2.5 | 43.0 |
| 10/27/10 | 2.5 | 35.0 |
| 10/20/11 | 2.5 | 55.0 |
| 10/17/12 | 2.5 | 34.0 |
| 11/05/13 | 8.2 | 210.0 |
| 09/29/14 | 2.5 | 61.0 |
| 09/23/15 | 2.5 | 59.0 |
| 11/02/16 | 2.5 | 44.0 |
| 10/25/17 | 2.5 | 31.0 |
| 10/30/18 | 2.5 | 85.0 |
| 09/30/19 | 2.5 | 44.0 |
| 11/20/20 | 2.5 | 130.0 |
| 10/22/21 | 12.0 | 170.0 |
| 10/20/22 | 2.5 | 120.0 |
| 09/25/24 | 2.5 | 100.0 |

 Value is equal to 1/2 the detection limit.

Monitoring Well MW-8R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-8R
Chem-Trol Site, Site No. 915015



CHEM-TROL SITE

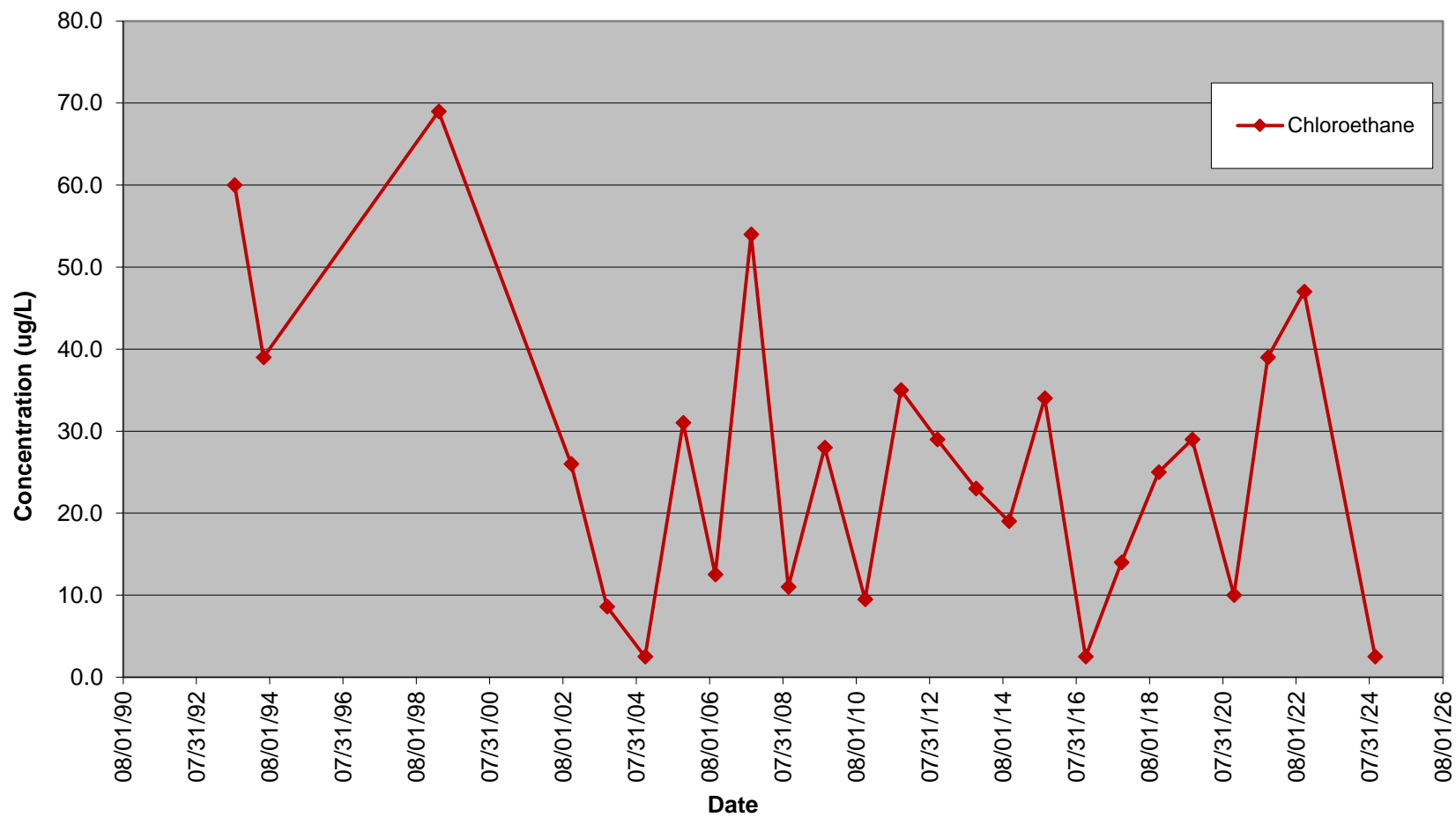
Groundwater Analytical Data for Well MW-9R (ug/L)

| Date | Chloroethane | 1,1-Dichloroethane | o-Chlorotoluene | 1,1,1-Trichloroethane | Trichloroethene |
|----------|--------------|--------------------|-----------------|-----------------------|-----------------|
| 08/16/93 | 60.0 | 1,000 | | 1,300 | 330.0 |
| 06/01/94 | 39.0 | 860.0 | 620.0 | 2,800 | 300.0 |
| 03/10/99 | 69.0 | 470.0 | 180.0 | 630.0 | 260.0 |
| 10/22/02 | 26.0 | 190.0 | 1,100 | 540.0 | 8.2 |
| 10/13/03 | 8.6 | 93.0 | 140.0 | 460.0 | 10.0 |
| 10/26/04 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 11/11/05 | 31.0 | 180.0 | 190.0 | 410.0 | 2.4 |
| 09/27/06 | 12.5 | 46.0 | 18.0 | 440.0 | 12.5 |
| 09/20/07 | 54.0 | 270.0 | 2,000 | 1,800 | 5.1 |
| 09/24/08 | 11.0 | 64.0 | 62.0 | 170.0 | 0.68 |
| 09/22/09 | 28.0 | 85.0 | 33.0 | 300.0 | 2.5 |
| 10/27/10 | 9.5 | 93.0 | 100.0 | 310.0 | 2.5 |
| 10/20/11 | 35.0 | 140.0 | 150.0 | 250.0 | |
| 10/17/12 | 29.0 | 150.0 | 380.0 | 410.0 | |
| 11/05/13 | 23.0 | 82.0 | 97.0 | 220.0 | 2.5 |
| 09/29/14 | 19.0 | 300.0 | 860.0 | 540.0 | 7.1 |
| 09/23/15 | 34.0 | 350.0 | 1900.0 | 530.0 | 2.5 |
| 11/02/16 | 2.5 | 31.0 | 38.0 | 82.0 | 2.5 |
| 10/25/17 | 14.0 | 410.0 | 2100.0 | 640.0 | 2.5 |
| 10/30/18 | 25.0 | 130.0 | 40.0 | 150.0 | 2.5 |
| 09/30/19 | 29.0 | 89.0 | 39.0 | 200.0 | 2.5 |
| 11/20/20 | 10.0 | 120.0 | 2.5 | 200.0 | 2.5 |
| 10/22/21 | 39.0 | 240.0 | 2.5 | 130.0 | 2.5 |
| 10/20/22 | 47.0 | 300.0 | 2.5 | 150.0 | 2.5 |
| 09/25/24 | 2.5 | 71.0 | 2.5 | 160.0 | 2.5 |

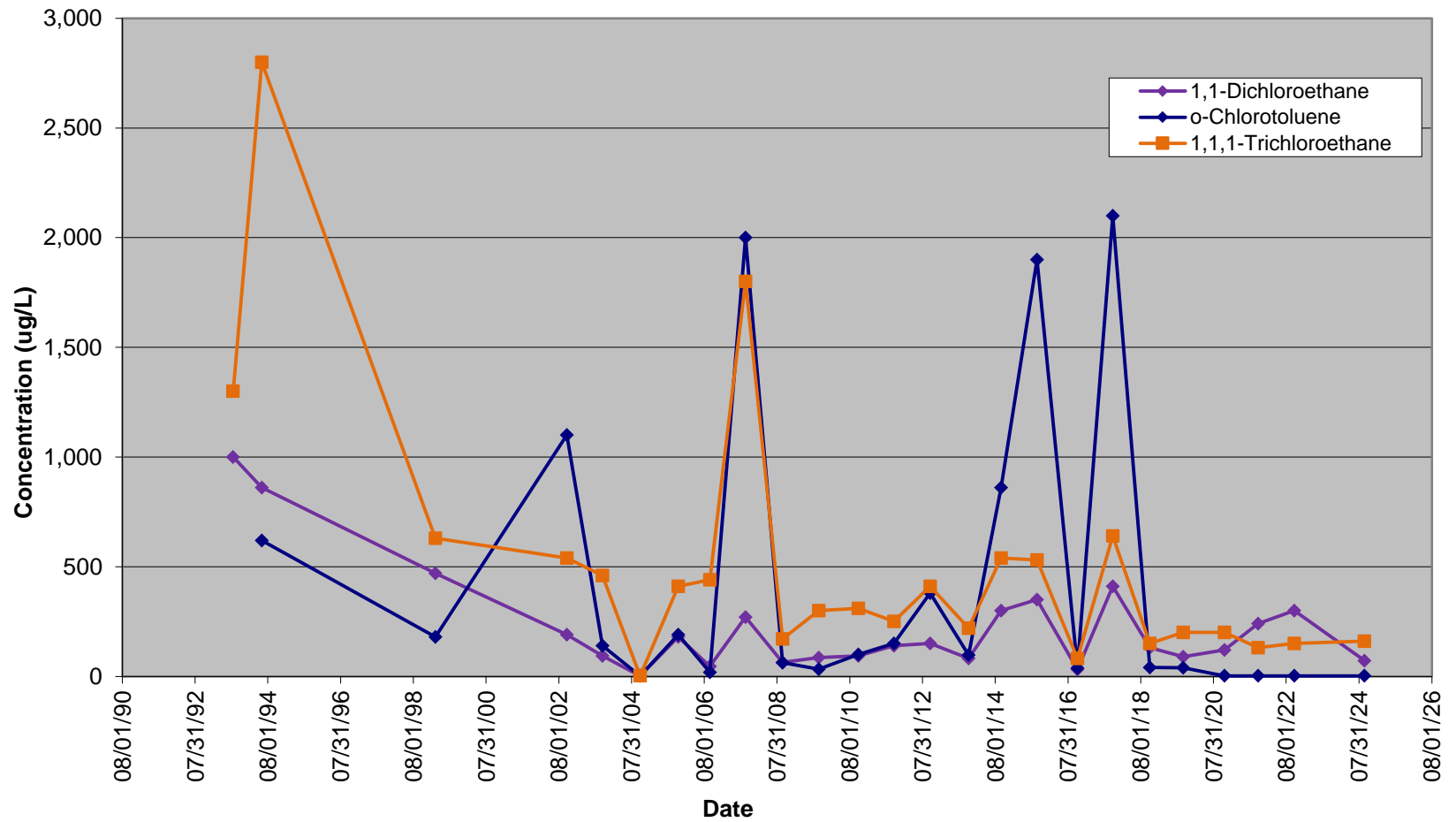
Data not included due to 1/2 the detection limit being higher than the previous 3 years of positive results.

Value is equal to 1/2 the detection limit.

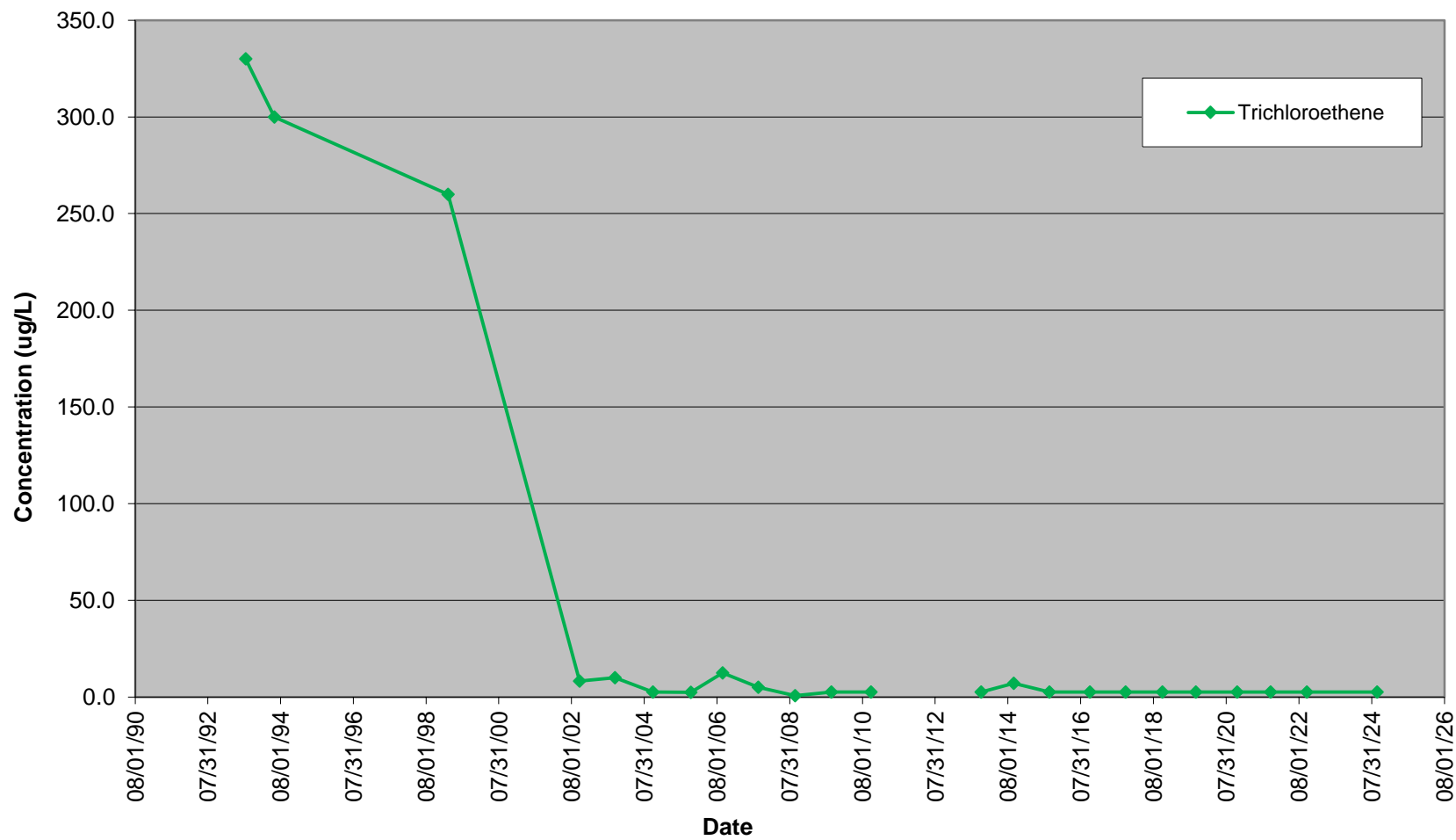
Monitoring Well MW-9R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-9R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-9R
Chem-Trol Site, Site No. 915015



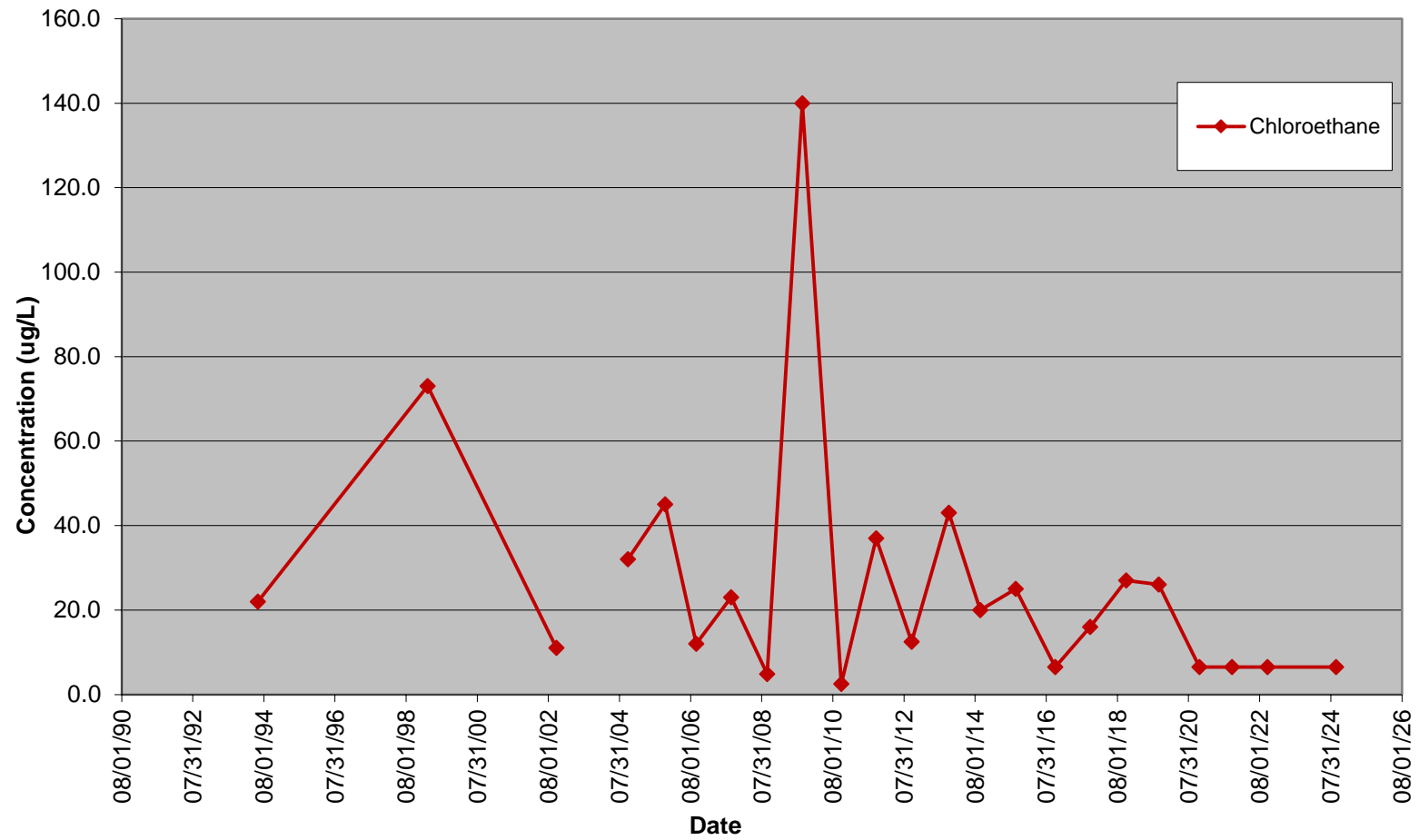
CHEM-TROL SITE

Groundwater Analytical Data for Well MW-13R (ug/L)

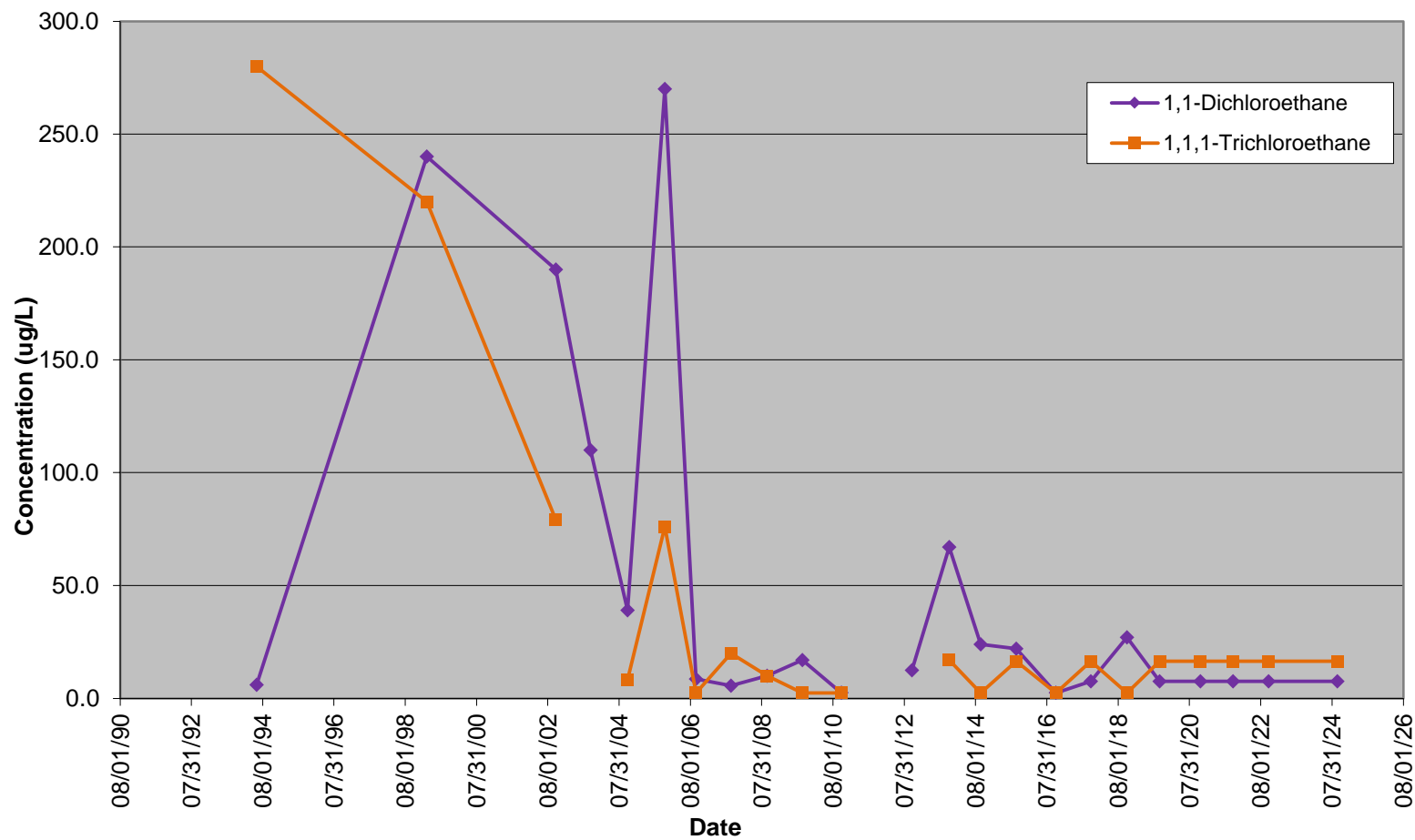
| Date | Chloroethane | 1,1-Dichloroethane | 1,1,1-Trichloroethane | o-Chlorotoluene |
|----------|--------------|--------------------|-----------------------|-----------------|
| 05/31/94 | 22.0 | 6.0 | 280.0 | 1,700 |
| 03/11/99 | 73.0 | 240.0 | 220.0 | |
| 10/22/02 | 11.0 | 190.0 | 79.0 | 4,200 |
| 10/13/03 | | 110.0 | | 4,500 |
| 10/26/04 | 32.0 | 39.0 | 8.2 | 1,900 |
| 11/11/05 | 45.0 | 270.0 | 76.0 | 4,900 |
| 09/27/06 | 12.0 | 8.6 | 2.5 | 680.0 |
| 09/20/07 | 23.0 | 5.6 | 20.0 | 440.0 |
| 09/24/08 | 4.8 | 10.0 | 10.0 | 250.0 |
| 09/22/09 | 140.0 | 17.0 | 2.5 | 600.0 |
| 10/27/10 | 2.5 | 2.5 | 2.5 | 210.0 |
| 10/20/11 | 37.0 | | | 820.0 |
| 10/17/12 | 12.5 | 12.5 | | 410.0 |
| 11/05/13 | 43.0 | 67.0 | 17.0 | 2,500 |
| 09/24/14 | 20.0 | 24.0 | 2.5 | 2,000 |
| 09/23/15 | 25.0 | 22.0 | 16.5 | 3200 |
| 11/02/16 | 6.5 | 2.5 | 2.5 | 1200 |
| 10/25/17 | 16.0 | 7.5 | 16.5 | 2000 |
| 10/30/18 | 27.0 | 27.0 | 2.5 | 2300 |
| 09/30/19 | 26.0 | 7.5 | 16.5 | 2500 |
| 11/20/20 | 6.5 | 7.5 | 16.5 | 1100 |
| 10/22/21 | 6.5 | 7.5 | 16.5 | 1700 |
| 10/20/22 | 6.5 | 7.5 | 16.5 | 1600 |
| 09/25/24 | 6.5 | 7.5 | 16.5 | 1400 |

| | |
|--|---|
| | Data not included due to high detection limits for ND values: (1) 2003 - 200 ug/L except for Total Xylenes, which was 600 ug/L. |
| | Data not included due to 1/2 the detection limit being higher than the previous 3 years of positive results. |
| | Value is equal to 1/2 the detection limit. |

Monitoring Well MW-13R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-13R
Chem-Trol Site, Site No. 915015



Monitoring Well MW-13R
Chem-Trol Site, Site No. 915015

